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
MONTHLY LIST OF PUBLICATIONS

JANUARY, 1931

 Send no remittances to the United States Department of Agriculture

Any five of the general publications listed herein, except those otherwise noted, may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts. As many as five additional publications may be sent free if the applicant gives sufficient proof that they are urgently needed. Free distribution of periodicals is restricted.

After the department's supply is exhausted, publications may still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices stated herein.

 Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Breeds of draft horses. G. A. Bell, Bureau of Animal Industry. 14 p., illus. (Farmers' Bulletin 619F., rev.) Price, 5¢.

Tuberculosis of hogs. John R. Mohler and Henry J. Washburn, Bureau of Animal Industry. 14 p., illus. (Farmers' Bulletin 781F., rev.) Price, 5¢.

Farm slaughtering and use of lamb and mutton. C. G. Potts, Bureau of Animal Industry. 32 p., illus. (Farmers' Bulletin 1172F., rev.) Price, 5¢.

Feeding cottonseed products to livestock. E. W. Sheets and E. H. Thompson, Bureau of Animal Industry. 14 p., illus. (Farmers' Bulletin 1179F., rev.) Price, 5¢.

The guinea fowl. Andrew S. Weiant, Bureau of Animal Industry. 13 p., illus. (Farmers' Bulletin 1391F., rev.) Price, 5¢.

Homes for birds. E. R. Kalmbach and W. L. McAtee, Bureau of Biological Survey. 22 p., illus. (Farmers' Bulletin 1456F., rev.) Price, 5¢.

Oats in the North-Central States. T. R. Stanton and F. A. Coffman, Bureau of Plant Industry. 28 p., illus. (Farmers' Bulletin 1581F., rev.) Price, 5¢.

[Title-page] with contents. Farmers' Bulletins Nos. 1601-1625. Prepared in the Indexing Section. 9 p. January, 1931. 5¢.

Rat proofing buildings and premises. James Silver and W. E. Crouch, Bureau of Biological Survey, and M. C. Betts, Bureau of Public Roads. 26 p., illus. (Farmers' Bulletin 1638F.) Price, 5¢.

Diseases and parasites of poultry. John S. Buckley, Hubert Bunyea, and Eloise B. Cram, Bureau of Animal Industry. 62 p., illus. (Farmers' Bulletin 1652F.) Price, 10¢.

Sweetclover in Corn Belt farming. M. A. Crosby, Bureau of Agricultural Economics, and L. W. Kephart, Bureau of Plant Industry. 26 p., illus. (Farmers' Bulletin 1653F.) Price, 5¢.

Insects of the pecan and how to combat them. G. F. Moznette, T. L. Bissell, and H. S. Adair, Bureau of Entomology. 60 p., illus. (Farmers' Bulletin 1654F.) Price, 15¢.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins, except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in formal, popular style, and are limited to eight pages.

Suits for the small boy. Clarice Louisba Scott, Bureau of Home Economics. [8] p., illus. (Leaflet 52L.) Price, 5¢.

Red-squill powder in rat control. James Silver and J. C. Munch, Bureau of Biological Survey. 8 p., illus. (Leaflet 65L.) Price, 5¢.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

[Title page] with contents. Technical Bulletins, Nos. 176-200. Prepared in the Indexing Section. 12 p. [January] 1931. Price, 5¢.

Ecological studies of the beet leaf hopper. Walter Carter, Bureau of Entomology. 115 p., illus. (Technical Bulletin 206T.) Price, 30¢.

Correlation alinement charts in forest research: A method of solving problems in curvilinear multiple correlation. Donald Bruce and L. H. Reineke, Forest Service. 88 p., illus. (Technical Bulletin 210T.) Price, 15¢.

Perquisites and wages of hired farm laborers. Josiah C. Folsom, Bureau of Agricultural Economics. 58 p., illus. (Technical Bulletin 213T.) Price, 10¢.

Character of the colloidal materials in the profiles of certain major soil groups. M. S. Anderson and Horace G. Byers, Bureau of Chemistry and Soils. 24 p. (Technical Bulletin 228T.) Price, 5¢.

Variations of the colloidal material extracted from the soils of the Miami, Chester, and Cecil series. R. S. Holmes and Glen Edgington, Bureau of Chemistry and Soils. 24 p., illus. (Technical Bulletin 229T.) Price, 5¢.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Survey of the fertilizer industry. P. E. Howard, Bureau of Chemistry and Soils. 23 p. (Circular 129C.) Price, 5¢.

Analysis of the operations of a cooperative livestock concentration point. John H. Lister and C. G. Randell, Bureau of Agricultural Economics. 32 p., illus. (Circular 142C.) Price, 10¢.

Farmers' experiences and opinions as factors influencing their cotton-marketing methods. T. B. Manny, Bureau of Agricultural Economics. 63 p. (Circular 144C.) Price, 10¢.

Proximate composition of fresh vegetables. Charlotte Chatfield and Georgian Adams, Bureau of Home Economics. 24 p. (Circular 146C.) Price, 5¢.

Parasites and parasitic diseases of horses. Benjamin Schwartz, Marion Imes, and Willard H. Wright, Bureau of Animal Industry. 55 p., illus. (Circular 148C.) Price, 15¢.

Marketing the commercial crop of early potatoes. J. W. Park, Bureau of Agricultural Economics. 44 p., illus. (Circular 149C.) Price, 10¢.

Monantha vetch. Roland McKee, H. A. Schoth, and J. L. Stephens, Bureau of Plant Industry. 14 p., illus. (Circular 152C.) Price, 5¢.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

The Food and Drug Administration. 20 p. (Miscellaneous Publication 48MP., rev.) Price, 10¢.

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

North Carolina, Burke County. (1926, No. 22.) Price, 15¢.

Tennessee, Hardin County. (1926, No. 21.) Price, 5¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry for December, 1930. pp. 105-112. (S. R. A., B. A. I. 284.) Price, 5¢.

Japanese-beetle quarantine. Revision of quarantine and regulations. Plant Quarantine and Control Administration. 13 p. (PQCA—Q48, effective November 10, 1930.)

Notices of Judgment under the Food and Drugs Act, 16001-17000, index, pp. 629-639. Price, 5¢.

Notices of Judgment under the Food and Drugs Act. Food and Drug Administration. pp. 43-75 (N. J., F. D. 17076-17100); pp. 99-119 (N. J., F. D. 17151-17175); pp. 121-131 (N. J., F. D. 17176-17200); pp. 133-151 (N. J., F. D. 17201-17225); pp. 153-163 (N. J., F. D. 17226-17250); pp. 165-177 (N. J., F. D. 17251-17275); pp. 179-188 (N. J., F. D. 17276-17300). Price, 5¢ each.

Nursery stock, plant, and seed quarantine. Notice of Quarantine No. 37, with revised regulations. Plant Quarantine and Control Administration. 11 p. (P. Q. C. A.—Q. 37, effective December 22, 1930.)

Revised and amended definitions and standards for food products. Food and Drug Administration. 1 p. (S. R. A., F. D. No. 2, Rev. 1, Suppl. 3.) Price, 5¢.

Service and regulatory announcements, July-September, 1930. Plant Quarantine and Control Administration. pp. 89-132. (S. R. A.—P. Q. C. A. 104.)

OTHER PUBLICATIONS

Report of the Acting Chief of the Office of Experiment Stations. Walter H. Evans, Office of Experiment Stations. 12 p. Price, 5¢.

Report of the Alaska agricultural experiment stations, 1929. 58 p., illus. Price, 10¢.

Report of the Chief of the Bureau of Agricultural Economics. Nils A. Olsen. 80 p. Price, 10¢.

Report of the Chief of the Bureau of Animal Industry. John R. Mohler. 79 p. Price, 10¢.

Report of the Chief of the Bureau of Chemistry and Soils. Henry G. Knight. 67 p. Price, 10¢.

Report of the Chief of the Bureau of Dairy Industry. O. E. Reed. 44 p. Price, 5¢.

Report of the Chief of the Bureau of Entomology. C. L. Marlatt. 76 p. Price, 10¢.

Report of the Chief of the Bureau of Plant Industry. Wm. A. Taylor. 47 p. Price, 5¢.

Report of the Chief of the Bureau of Public Roads. Thomas H. MacDonald. 92 p. Price, 10¢.

Report of the Chief of the Grain Futures Administration. J. W. T. Duvel. 15 p. Price, 5¢.

Report of the Chief of the Plant Quarantine and Control Administration. Lee A. Strong. 86 p. Price, 10¢.

Report of the Forester. Robert Y. Stuart. 79 p. Price, 10¢.

Report of the Librarian. Claribel R. Barnett. 16 p. Price, 5¢.

The family's food at low cost. Hazel K. Stiebling, Bureau of Home Economics; Miriam Birdseye, Extension Service; and Clyde B. Schuman, American Red Cross. 4 p. Price, 5¢.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 15, No. 1, January 1, 1931. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.¹

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Crops and markets. Vol. 7, No. 12, December, 1930; Vol. 8, No. 1, January, 1931. Price, 5¢ a copy; 60¢ a year, domestic; 85¢ a year, foreign.¹

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3.00 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2.40 a year.¹

Experiment station record. Vol. 63, Nos. 7-9, November-December, 1930. Single numbers for sale only. Price, 10¢.¹

A technical review of the world's scientific literature pertaining to agriculture. Two volumes a year, of 10 numbers each; 75¢ a volume, domestic; \$1.25 a volume, foreign.

Extension service review. Vol. 2, No. 1, January, 1931. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.¹

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Journal of agricultural research. Price, 20¢ a copy; \$4 a year, domestic; \$5.25 a year foreign.¹ Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work. Separates of articles are distributed free to those desiring them, as long as the limited supply lasts.

— Vol. 41, No. 12. December 15, 1930. Illus.

Contents: Studies on bacterial canker of tomato. Key No. G-745. Mary K. Bryan. A comparative study of the stem epidermis of certain sugarcane varieties. Key No. G-748. Ernst Artschwager. Chromosome behavior and pollen production in the potato. Key No. G-754. A. E. Longley and C. F. Clark.

Monthly weather review. Vol. 58, No. 10, October, 1930. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.¹ Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary, and (3) climatological tables.

Public roads. Vol. 8, Index, March, 1927-February, 1928; Vol. 9, Index, March, 1928-February, 1929. Price, 5¢ each.¹

Snow and ice bulletin. Nos. 3-7, December 31, 1930-January 28, 1931. 50¢ a year. Free distribution limited to cooperators with the Weather Bureau.

Issued on Tuesdays during the winter. Based on data from regular Weather Bureau and cooperative stations. As far as practicable all reports of snow and ice are given.

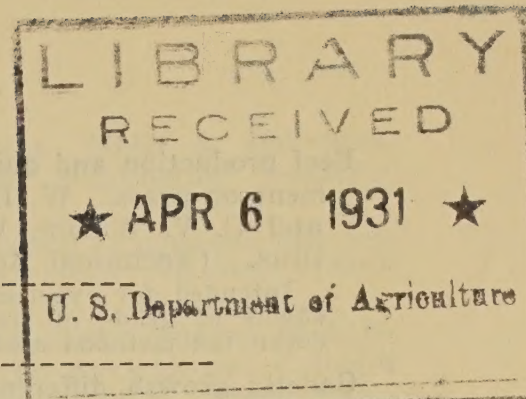
The official record. Vol. 10, Nos. 1-5, January 1, 8, 15, 22, 29, 1931. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.¹

Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.

Weekly weather and crop bulletin. No. 52, December 30, 1930; January 6, 13, 20, 27, 1931. Price, 50¢ a year, domestic; \$1 year, foreign.¹

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.



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GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Tile-trenching machinery. D. L. Yarnell, Bureau of Public Roads. 17 p., illus. (Farmers' Bulletin 1131F., rev.) Price, 5¢.

The corn earworm as an enemy of field corn in the Eastern States. W. J. Phillips and George W. Barber, Bureau of Entomology. 18 p., illus. (Farmers' Bulletin 1651F.) Price, 5¢.

Describes the different stages of the insect; shows how it damages corn, how it is partly kept in check by its own habits and its natural enemies, and how a knowledge of its life history will aid the corn grower in protecting his crop. Of special interest east of the Rocky Mountains.

The control of moths in upholstered furniture. E. A. Back and R. T. Cotton, Bureau of Entomology. 33 p., illus. (Farmers' Bulletin 1655F.) Price, 10¢.

Intended to acquaint the reader with essential facts concerning the development and control of moths as pests of upholstered furniture, so that he may guard against attack by them.

Peanut growing. W. R. Beattie and J. H. Beattie, Bureau of Plant Industry. 29 p., illus. (Farmers' Bulletin 1656F.) Price, 5¢.

Describes under what conditions peanuts should be grown, rotation of the crop, kind and quantity of fertilizer to be used, and the effect of the latter on quality and quantity of the peanuts.

The Great Basin wireworm in the Pacific Northwest. M. C. Lane, Bureau of Entomology. 9 p., illus. (Farmers' Bulletin 1657F.) Price, 5¢.

Of interest to farmers in those areas of the Pacific Northwest receiving less than 15 inches of precipitation annually. There the wireworm damage amounts to millions of dollars annually. This bulletin recommends various control measures, of which clean summer fallow is the most efficient.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

Beef production and quality as affected by grade of steer and feeding grain supplement on grass. W. H. Black and K. F. Warner, Bureau of Animal Industry, and C. V. Wilson, West Virginia Agricultural Experiment Station. 44 p., illus. (Technical Bulletin 217T.) Price, 15¢.

Intended for experiment-station workers and livestock producers interested in the effects of grade of steers and their feeding on the quality of beef. Describes in detail the methods used in testing and comparing the quality of meat.

Genetic growth differentiation in guinea pigs. Hugh C. McPhee and Orson N. Eaton, Bureau of Animal Industry. 36 p., illus. (Technical Bulletin 222T.) Price, 10¢.

Intended for scientists and others who are interested in genetics. The investigations include the development by systematic inbreeding of five distinct families of guinea pigs. Possible applications of the results to livestock breeding are discussed.

Habits and economic status of the pocket gophers. Theo. H. Scheffer, Bureau of Biological Survey. 27 p., illus. (Technical Bulletin 224T.) Price, 10¢.

In addition to data on habits of pocket gophers and their damage to crops, this bulletin recommends several measures of control and discusses the compulsory extermination and county laws on them.

Results of fertilizer experiments on Norfolk fine sandy loam and on Norfolk sandy loam. J. J. Skinner, Bureau of Chemistry and Soils. 23 p., illus. (Technical Bulletin 225T.) Price, 5¢.

Results are given of a 10-year fertilizer experiment with cotton and corn grown in rotation on Norfolk fine sandy loam in South Carolina. The largest cotton yields were obtained with mixtures containing 3 to 6 per cent ammonia. The high nitrogen fertilizer mixtures gave the largest yields of corn.

A revision of the American species of *Empoasca* known to occur north of Mexico. Dwight M. DeLong, Bureau of Entomology. 60 p., illus. (Technical Bulletin 231T.) Price, 15¢.

Detailed technical descriptions are given of 51 species and 10 varieties. Maps are presented showing the distribution of the four more prevalent species. Of value to all workers with leaf hoppers and to entomologists interested in improved methods of technic in the examination of specimens and the delineation of delicate parts.

A laboratory study of the field percolation rates of soils. C. S. Slater and H. G. Byers, Bureau of Chemistry and Soils. 24 p., illus. (Technical Bulletin 232T.) Price, 5¢.

As permeability is one of the most important soil properties, this investigation was conducted to develop and standardize a procedure for the measurement of percolation rates of soil samples.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Development and use of baking powder and baking chemicals. L. H. Bailey, Bureau of Chemistry and Soils. 16 p. (Circular 138C., rev.) Price, 5¢.

Crotalaria, a new legume for the South. Roland McKee and C. R. Enlow, Bureau of Plant Industry. 31 p., illus. (Circular 137C.) Price, 10¢.

The forage and green-manure yields of crotalaria on poor sandy lands in the South have been heavy, indicating that this crop has a real place under such conditions. The principal use of crotalaria is for green-manure. Some species can be used for hay while others are probably poisonous.

The ice well for the dairy farm. J. R. Dawson and A. L. Watt, Bureau of Dairy Industry. 12 p., illus. (Circular 155C.) Price, 5¢.

Describes with detailed illustrations, the plans for constructing an ice well. Makes suggestions concerning the form of construction, material to use, and method of operation.

Transplanting sugar beets in Utah and Idaho. S. B. Nuckols, Bureau of Plant Industry. 15 p., illus. (Circular 156C.) Price, 5¢.

Intended for managers and field superintendents of sugar-beet companies as well as for growers interested in testing new developments in sugar-beet culture. Results of four years of experiments show that advantages are derived from transplanting sugar beets, and suggest that the method has some possibilities.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Reliability of the tuberculin test. John R. Mohler, Bureau of Animal Industry. 14 p., illus. (Miscellaneous Publication 59MP., rev.) Price, 5¢.

Summary of irrigation-district statutes of western States. Wells A. Hutchins, Bureau of Public Roads. 127 p. (Miscellaneous Publication 103MP.) Price, 20¢.

A topical summary of the laws of 17 western States relating to irrigation districts. Of interest chiefly to legislators and State administrative officers of these western States and officers of irrigation districts.

The agricultural outlook for 1931. Prepared by the Staff of the Bureau of Agricultural Economics, assisted by representatives of the Agricultural Colleges and Extension Services and the Federal Farm Board. 91 p. (Miscellaneous Publication 108MP.) Price, 15¢.

The farm outlook for 1931: Facts for farmers. From the National Agricultural Outlook, 1931, issued by the Bureau of Agricultural Economics, United States Department of Agriculture. 16 p. (Miscellaneous Publication 112MP.) Price, 5¢.

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

Georgia, Clarke County. (1927, No. 7.) Price, 10¢.

Kansas, Clay County. (1926, No. 26.) Price, 15¢.

New Jersey, The Bergen Area. (1925, No. 23.) Price, 20¢.

Oregon, The Eugene Area. (1925, No. 33.) Price, 35¢.

Virginia, Orange County. (1927, No. 6.) Price, 15¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Amendment 2 to B. A. I. Order 301 (Regulations governing the importation of domestic livestock and other animals into the United States), and Amendment 1 to B. A. I. Order 322 (Regulations governing the inspection of live poultry and the inspection, humane treatment, and safe transport of animals for exportation from the United States). Effective March 1, 1931. 1 p. (B. A. I. Order 301, Amdt. 2; B. A. I. Order 322, Amdt. 1.)

Amendment 3 to B. A. I. Order 301 (Regulations governing the importation of domestic livestock and other animals into the United States). Bureau of Animal Industry. Effective February 1, 1931. 1 p. (B. A. I. Order 301, Amdt. 3.)

Amendment to rules and regulations of the Secretary of Agriculture for carrying out the provisions of the perishable agricultural commodities act, 1930. Bureau of Agricultural Economics. 1 p. (S. R. A., B. A. E. 121, Amdt. 1.)

European corn-borer quarantine. Revision of Regulations. Plant Quarantine and Control Administration. 8 p. (P. Q. C. A.—Q. 43.)

Information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry, January–December, 1930, Index. pp. 113–115; January, 1931. 12 p. (S. R. A.—B. A. I. 285.) Price, 5¢ each.

Notices of judgment under the food and drugs act. Food and Drug Administration. pp. 189–209 (N. J., F. D. 17301–17325); pp. 211–222 (N. J., F. D. 17326–17350); pp. 223–236 (N. J., F. D. 17351–17375). Price 5¢, each.

Regulations under the Federal seed act. Bureau of Plant Industry. 11 p. (S. R. A.—B. P. I. 17.) Price, 5¢.

Rules and regulations of the Secretary of Agriculture governing the inspection and certification of fruits, vegetables, and other products. (Revised January, 1931.) 6 p. (S. R. A.—B. A. E. 93, rev.) Price, 5¢.

Special regulations governing the movement of livestock between the United States of America and the United Mexican States. Bureau of Animal Industry. 6 p. (B. A. I. Order 327.) Price, 5¢.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 15, No. 2, February 1, 1931. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.¹

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Climatological data. Vol. 17, No. 10, October; No. 11, November. 1930.

In 42 sections, containing weather statistics for 42 separate sections, each corresponding, as a rule, to a State. Monthly information for 1 section is 50¢ a year; for data regarding all 42 sections, 35¢ a month, or \$4 a year.¹ Not for general distribution.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3.00 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2.40 a year.¹

Experiment station record. Vol. 64, No. 1. January, 1931. Single numbers for sale only. Price, 10¢.¹

A technical review of the world's scientific literature pertaining to agriculture. Two volumes a year, of 10 numbers each; 75¢ a volume, domestic; \$1.25 a volume, foreign.¹

Extension service review. Vol. 2, No. 2, February, 1931. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.¹

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Forest worker. Vol. 7, No. 1, January, 1931. Price, 5¢ a copy; 25¢ a year, domestic; 35¢ a year, foreign.¹

News of State forestry, forestry education, private forestry, and the work of the Forest Service.

Journal of agricultural research. Vol. 42, Nos. 1-3, January 1, 15; February 1, 1931. Price, 20¢ a copy; \$4 a year, domestic; \$5.25 a year, foreign.¹ Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work. Separates of articles are distributed free to those desiring them, as long as the limited supply lasts.

Monthly weather review. Vol. 58, No. 11, November, 1930. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.¹ Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary, and (3) climatological tables.

Public roads. Vol. 11, No. 11, January, 1931. Illus. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.¹

Snow and ice bulletin. Nos. 8-11, February 4, 11, 18, 25, 1931. 50¢ a year. Free distribution limited to cooperators with the Weather Bureau.

Issued on Tuesdays during the winter. Based on data from regular Weather Bureau and cooperative stations. As far as practicable all reports of snow and ice are given.

The official record. Vol. 9, 1930, Index. Vol. 10, Nos. 6-9, February 5, 12, 19, 26, 1931. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.¹

Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.

Weekly weather and crop bulletin. Nos. 5-8, February 3, 10, 17, 24, 1931. Price, 50¢ a year, domestic; \$1 a year, foreign.¹

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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MARCH, 1931

Send no remittances to the United States Department of Agriculture

Any five of the general publications listed herein, except those otherwise noted, may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts. As many as five additional publications may be sent free if the applicant gives sufficient proof that they are urgently needed. Free distribution of periodicals is restricted.

After the department's supply is exhausted, publications may still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices stated herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Strawberry varieties in the United States. George M. Darrow and George F. Waldo, Bureau of Plant Industry. 29 p., illus. (Farmers' Bulletin 1043F., rev.) Price, 5¢.

Onion diseases and their control. J. C. Walker, Bureau of Plant Industry. 24 p., illus. (Farmers' Bulletin 1060F., rev.) Price, 5¢.

Unfermented grape juice: How to make it in the home. Charles Dearing, Bureau of Plant Industry. 26 p., illus. (Farmers' Bulletin 1075F., rev.) Price, 10¢.

Hog lice and hog mange: Methods of control and eradication. Marion Imes, Bureau of Animal Industry. 22 p., illus. (Farmers' Bulletin 1085F., rev.) Price, 10¢.

Potato production in the South. William Stuart, Bureau of Plant Industry. 34 p., illus. (Farmers' Bulletin 1205F., rev.) Price, 5¢.

Seed marketing hints for the farmer. George C. Edler, Bureau of Agricultural Economics. 32 p., illus. (Farmers' Bulletin 1232F., rev.) Price, 5¢.

Stored-grain pests. E. A. Back and R. T. Cotton, Bureau of Entomology. 46 p., illus. (Farmers' Bulletin 1260F., rev.) Price, 15¢.

Local bird refuges. W. L. McAtee, Bureau of Biological Survey. 14 p., illus. (Farmers' Bulletin 1644F.) Price, 5¢.

One of a series of bulletins describing the best methods of attracting birds, and adapted for use throughout the United States. The economic value of birds to the farmer is stressed, and this value is estimated at more than a third of a billion dollars annually throughout the United States.

Sugar-beet growing under irrigation in the Utah-Idaho area. S. B. Nuckols, Bureau of Plant Industry. 34 p., illus. (Farmers' Bulletin 1645F.) Price, 10¢.

Intended primarily for farmers and agriculturalists of beet sugar factories. Gives general information on the growing of sugar beets in irrigated areas where soil and climatic conditions are especially favorable. The value of various sugar-beet by-products is emphasized as being of especial agricultural significance.

Farm water power. George M. Warren, Bureau of Public Roads. 22 p., illus. (Farmers' Bulletin 1658F.) Price, 10¢.

Describes and illustrates a number of typical farm water-power plants, outlines the essentials of the design of such plants, and gives brief instructions for their proper care and use. Of interest to farmers in all sections where small streams are available for furnishing water power.

Oats in the Northeastern States. T. R. Stanton and F. A. Coffman, Bureau of Plant Industry. 18 p., illus. (Farmers' Bulletin 1659F.) Price 5¢.

Gives directions for making the production of oats more profitable in the Northeastern States. The use of improved cultural methods and varieties should increase acre yields and therefore make the crop relatively more satisfactory.

Husker-shredders in corn-borer control. I. F. Reed and W. R. Humphries, Bureau of Public Roads. 17 p., illus. (Farmers' Bulletin 1662F.) Price, 10¢.

Based on tests run on husker-shredders during 1928-29 in the vicinity of Toledo, Ohio. It describes the operation of the husker-shredder and makes suggestions as to its operation and care with special reference to corn-borer control. Of interest in sections infested with the European corn borer.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

Measuring hay in stacks. W. H. Hosterman, Bureau of Agricultural Economics. 6 p., illus. (Leaflet 72L.) Price, 5¢.

A new method of measuring hay in stacks, worked out as a result of many cooperative studies in the West. The more technical phases of the subject will be covered in Technical Bulletin 239 soon to be issued.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

Inheritance of winter hardiness, growth habit, and stem-rust reaction in crosses between Minhardi winter and H-44 spring wheats. Karl S. Quisenberry, Bureau of Plant Industry. 46 p., illus. (Technical Bulletin 218T.) Price, 15¢.

Intended for geneticists and wheat breeders. The investigations covered include the inheritance of contrasting characters for winter hardiness, growth habits, stem-rust reaction, heading period, awnedness, and coleoptile color.

A study of the influence of herbaceous plant cover on surface run-off and soil erosion in relation to grazing on the Wasatch Plateau in Utah. C. L. Forsling, Forest Service. 72 p., illus. (Technical Bulletin 220T.) Price, 20¢.

Deals mainly with the influence that the plant cover, other than trees and shrubs, may have on surface run-off and the erosion which may accompany it. The results obtained by the method described are an important contribution to a fuller understanding of erosion and watershed problems.

Wild-duck foods of North Dakota lakes. Franklin P. Metcalf, Bureau of Biological Survey. 72 p. (Technical Bulletin 221T.) Price, 15¢.

The result of a survey conducted during the summer of 1917 for the purpose of gathering detailed information on the food plants of migratory waterfowl in the State and to determine the value of possibilities of the improvement of the marsh and aquatic areas as feeding grounds for the birds.

The distribution and the mechanical properties of Alaska woods. L. J. Markwardt, Forest Service. 80 p., illus. (Technical Bulletin 226T.) Price, 20¢.

Provides reliable data on the principal commercial woods of Alaska for architects, engineers, contractors, woodworkers, and others who require detailed information regarding Alaska woods and a means of comparing their respective properties.

Macrocentrus gifuensis Ashmead, a polyembryonic braconid parasite in the European corn borer. H. L. Parker, Bureau of Entomology. 63 p., illus. (Technical Bulletin 230T.) Price, 15¢.

A report of work done at the European Parasite Laboratory of the Bureau of Entomology at Hyères, Var, France, from April, 1927, to October, 1929.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Tree hoppers and their control in the orchards of the Pacific Northwest. M. A. Yothers, Bureau of Entomology. 15 p., illus. (Circular 106C., rev.) Price, 5¢.

Methods of seed production from sugar beets overwintered in the field. John C. Overpeck and Harry A. Elcock, Bureau of Plant Industry. 22 p., illus. (Circular 153C.) Price, 10¢.

Of primary interest to sugar companies desirous of producing sugar-beet seed in the United States and to farmers in those regions in the Southwest where climatic conditions permit successful overwintering in the field of sugar-beet plants for seed production. Recommendations for growing the seed crop, based upon practices found successful, are given.

Anaplasmosis in cattle. Geo. W. Stiles, jr., Bureau of Animal Industry. 11 p., illus. (Circular 154C.) Price, 5¢.

Intended for livestock sanitary officials, practicing veterinarians, and cattle owners in the South and in many other cattle-raising regions of the United States. Although treatment for the disease is still in the experimental stage, owners may assist the recovery of affected animals by giving extra care and avoiding unnecessary driving or rough handling.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

List of available publications of the United States Department of Agriculture, December 1, 1930. Compiled by John O. Riley, Office of Information. 81 p. (Miscellaneous Publication 60M., rev.) Price, 10¢.

STATISTICAL BULLETINS

Tables giving statistics relating to one or more closely related agricultural commodities. Of interest to persons engaged in marketing or any business affected by agricultural production.

Stumpage and log prices for the calendar year 1928. Compiled by Henry B. Steer, Forest Service. 26 p. (Statistical Bulletin 32S.) Price, 10¢.

Cold-storage holdings, year ended December 31, 1929, with comparable data for earlier years. Prepared by the Bureau of Agricultural Economics. 36 p. (Statistical Bulletin 33S.) Price, 10¢.

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

Minnesota, Wadena County. (1926, No. 25.) 15¢.

Mississippi, Claiborne County. (1926, No. 23.) 20¢.

Mississippi, Rankin County. (1926, No. 27.) 20¢.

Nebraska, Clay County. (1927, No. 8.) 15¢.

Nebraska, Franklin County. (1926, No. 31.) 15¢.

North Carolina, Davie County. (1927, No. 5.) 15¢.

North Carolina, Watauga County. (1928, No. 1.) 10¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Amendment of July 8, 1930, to Federal food and drugs act and requirements thereunder. Food and Drug Administration. 6 p. (S. R. A., F. D. No. 4.) Price, 5¢.

Information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry, February, 1931. pp. 13-22. (S. R. A.—B. A. I. 286.) Price, 5¢.

Laws and regulations for the administration of the Aleutian Islands Reservation, Alaska. Bureau of Biological Survey. 6 p. (S. R. A.—B. S. 74.) Price, 5¢.

Modification of satin-moth quarantine. Plant Quarantine and Control Administration. 3 p. (PQCA—Q53, rev.) Price, 5¢.

Notices of judgment under the food and drugs act. Food and Drug Administration: pp. 237-259 (N. J., F. D. 17376-17400) February, 1931; pp. 261-272. (N. J., F. D. 17401-17425) March 1931; pp. 273-285 (N. J., F. D. 17426-17450) March, 1931; pp. 287-309 (N. J., F. D. 17451-17475) March, 1931; pp. 311-322 (N. J., F. D. 17476-17500) March, 1931; pp. 323-336 (N. J. F. D. 17501-17525) March, 1931. Price, 5¢ each.

Official United States standards for grades of lamb carcasses, yearling mutton, and mutton carcasses. Effective February 16, 1931. Bureau of Agricultural Economics. 6 p. (S. R. A.—B. A. E. 123.) Price 5¢.

OTHER PUBLICATIONS

Report of the Chief of the Weather Bureau. 264 p., illus. Price, 50¢.

Report of the Guam Agricultural Experiment Station, 1929. 20 p., illus. Price, 5¢.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 15, No. 3, March 1, 1931. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.¹

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Climatological data. Vol. 17, No. 12 December. 1930.

In 42 sections, containing weather statistics for 42 separate sections, each corresponding, as a rule, to a State. Monthly information for 1 section is 50¢ a year; for data regarding all 42 sections, 35¢ a month, or \$4 a year.¹ Not for general distribution.

Crops and markets. Vol. 8, No. 2, February, 1931. Price, 5¢ a copy; 60¢ a year, domestic; 85¢ a year, foreign.¹

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3.00 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2.40 a year.¹

Experiment station record. Vol. 64, No. 2-4. February-March, 1931. Single numbers for sale only. Price, 10¢.¹

A technical review of the world's scientific literature pertaining to agriculture. Two volumes a year, of 10 numbers each; 75¢ a volume, domestic; \$1.25 a volume, foreign.

Extension service review. Vol. 2, No. 3, March, 1931. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.¹

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Journal of agricultural research. Vol. 41, July 1-December 15, 1930. Index, with table of contents. pp. ii-v; 889-900. Price, 20¢.

Monthly weather review. Vol. 58, No. 12, December, 1930. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.¹ Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary, and (3) climatological tables.

Public roads. Vol. 11, No. 12, February, 1931. Illus. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.¹

Snow and ice bulletin. Nos. 12-15, March 4, 11-18, 25, 1931. 50¢ a year. Free distribution limited to cooperators with the Weather Bureau.

Issued on Tuesdays during the winter. Based on data from regular Weather Bureau and cooperative stations. As far as practicable all reports of snow and ice are given.

The official record. Vol. 10, Nos. 10-12, March 5, 14, 21, 28, 1931. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.¹

Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.

Weekly weather and crop bulletin. Nos. 9-12, March 3, 10, 17, 24, 1931. Price, 50¢ a year, domestic; \$1 a year, foreign.¹

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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MONTHLY LIST OF PUBLICATIONS

APRIL, 1931

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GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Production of clean milk. Ernest Kelly and C. J. Babcock, Bureau of Dairy Industry. 18 p., illus. (Farmers' Bulletin 602F., rev.) Price, 5¢.

Home gardening in the South. H. C. Thompson, Bureau of Plant Industry. 45 p., illus. (Farmers' Bulletin 934F., rev.) Price, 5¢.

How to grow an acre of potatoes. [Prepared especially for use in boys' and girls' club work.] William Stuart, Bureau of Plant Industry. 22 p., illus. (Farmers' Bulletin 1190F., rev.) Price, 5¢.

Control of the codling moth in the Pacific Northwest. E. J. Newcomer, M. A. Yothers, and W. D. Whitcomb, Bureau of Entomology. 26 p., illus. (Farmers' Bulletin 1326F., rev.) Price, 10¢.

Effective haying equipment and practices. For Northern Great Plains and intermountain regions. L. A. Reynoldson, Bureau of Agricultural Economics, and C. D. Kinsman, Bureau of Public Roads. 28 p., illus. (Farmers' Bulletin 1525F., rev.) Price, 10¢.

The horse bots and their control. F. C. Bishopp and W. E. Dove, Bureau of Entomology. 14 p., illus. (Farmers' Bulletin 1503F., rev.) Price, 5¢.

Rabbit parasites and diseases. Benjamin Schwartz and W. B. Shook, Bureau of Animal Industry. 30 p., illus. (Farmers' Bulletin 1568F., rev.) Price, 5¢.

The use of logs and poles in farm construction. T. A. H. Miller, Bureau of Public Roads. 26 p., illus. (Farmers' Bulletin 1660F.) Price, 10¢.

Farm study of the cotton plant. J. W. Hubbard, Bureau of Plant Industry. 18 p., illus. (Farmers' Bulletin 1661F.) Price, 5¢.

Winter legumes for green manure in the Cotton Belt. Roland McKee, Bureau of Plant Industry, and A. D. McNair, Bureau of Agricultural Economics. 21 p., illus. (Farmers' Bulletin 1663F.) Price, 5¢.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

Reproduction on pulpwood lands in the Northeast. Marinus Westveld, Forest Service. 52 p., illus. (Technical Bulletin 223T.) Price, 20¢.

Developmental stages of some nematodes of the Spiruoidea parasitic in poultry and game birds. Eloise B. Cram, Bureau of Animal Industry. 28 p., illus. (Technical Bulletin 227T.) Price, 15¢.

Apanteles thompsoni Lyle, a braconid parasite of the European corn borer. Arlo M. Vance, Bureau of Entomology. 28 p., illus. (Technical Bulletin 233T.) Price, 10¢.

Marketing apples grown in the Cumberland-Shenandoah region of Pennsylvania, Virginia, and West Virginia. Carl R. Swinson, Bureau of Agricultural Economics, United States Department of Agriculture; J. J. Vernon, Virginia Agricultural Experiment Station; F. F. Lininger and F. P. Weaver, Pennsylvania State College of Agriculture; and A. J. Dadisman, West Virginia College of Agriculture. 51 p., illus. (Technical Bulletin 234T.) Price, 10¢.

Quality of alfalfa hay in relation to curing practice. T. A. Kiesselbach and Arthur Anderson, Nebraska Agricultural Experiment Station. 26 p., illus. (Technical Bulletin 235T.) Price, 10¢.

The time to harvest fiber flax. Brittain B. Robinson, Bureau of Plant Industry. 23 p., illus. (Technical Bulletin 236T.) Price, 5¢.

Economic factors affecting the beef-cattle industry of Virginia. Charles A. Burmeister, Herman M. Conway, and Albert P. Brodell. Bureau of Agricultural Economics. 66 p., illus. (Technical Bulletin 237T.) Price, 10¢.

The pharmacology of Thallium and its use in rodent control. James C. Munch and James Silver, Bureau of Biological Survey. 28 p. (Technical Bulletin 238T.) Price, 5¢.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Tree hoppers and their control in the orchards of the Pacific Northwest. M. A. Yothers, Bureau of Entomology. 15 p., illus. (Circular 106C., rev.) Price, 5¢.

Some common mushrooms and how to know them. Vera K. Charles, Bureau of Plant Industry. 60 p., illus. (Circular 143C.) Price, 20¢.

Extension work in cooperative marketing. B. B. Derrick, Office of Cooperative Extension Work. 40 p. (Circular 159C.) Price, 10¢.

Bulk and sack handling of grain in the Pacific Coast States. E. N. Bates and G. P. Bodnar, Bureau of Agricultural Economics, and E. J. Stirniman, University of California. 28 p., illus. (Circular 161C.) Price, 10¢.

Variety tests of sugarcanes in Louisiana during the crop year, 1928-29. George Arceneaux, agent, and R. T. Gibbens, Bureau of Plant Industry. 24 p. (Circular 162C.) Price, 5¢.

An apparatus for determining the tenderness of certain canned fruits and vegetables. Victor B. Bonney, Paul A. Clifford, and Henry A. Lepper, Food and Drug Administration. 6 p., illus. (Circular 164C.) Price, 5¢.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

The Food and Drug Administration of the United States Department of Agriculture. 20 p. (Miscellaneous Publication 48MP., rev.) Price, 10¢.

Government forest work in Utah. Prepared by the Intermountain Region, Forest Service. 18 p., illus. (Miscellaneous Publication 99MP.) Price, 10¢.

✓ Workers in subjects pertaining to agriculture in State Agricultural Colleges and Experiment Stations, 1930-31. Mary A. Agnew, Office of Experiment Stations. 152 p. (Miscellaneous Publication 100MP.) Price, 20¢.

Pine-tree treasures. Nina Owen, Forest Service. 14 p., illus. (Miscellaneous Publication 106MP.) Price, 5¢.

An explanation of American lumber standards. C. V. Sweet, Forest Service. 12 p., illus. (Miscellaneous Publication 107MP.) Price, 5¢.

✓ Adequate diets for families with limited incomes. Hazel K. Stiebeling, Bureau of Home Economics, and Miriam Birdseye, Office of Cooperative Extension Work. 16 p. (Miscellaneous Publication 113MP.) Price, 5¢.

Information for the guidance of field men and cooperators of the Bureau of Biological Survey engaged in the control of injurious rodents and predatory animals. Prepared under the direction of Paul G. Redington, Chief, Bureau of Biological Survey, in the division of predatory-animal and rodent control, Stanley P. Young, in Charge. 8 p. (Miscellaneous Publication 115MP.) Price, 5¢.

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

Arizona, The Salt River Valley area. (1926, No. 32.) Price, 25¢.

Kansas, Labette County. (1926, No. 30.) Price, 15¢.

Michigan, Tuscola County. (1926, No. 29.) Price, 15¢.

Nebraska, Hamilton County. (1927, No. 10.) Price, 15¢.

New Jersey, The Camden area. (1926, No. 28.) Price, 15¢.

New Mexico, The Deming area. (1928, No. 2.) Price, 10¢.

West Virginia, Hampshire County. (1927, No. 9.) Price, 20¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Regulations for the enforcement of the tea act. Food and Drug Administration. 9 p. (S. R. A., T. No. 1.) Price, 5¢.

Migratory-bird treaty-act regulations and text of Federal laws relating to game and birds. Bureau of Biological Survey. 18 p. (S. R. A.—B. S. 75.) Price, 5¢.

Information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry for March, 1931. pp. 23-33. (S. R. A.—B. A. I. 287.) Price, 5¢.

Notices of judgment under the food and drugs act. Food and Drug Administration. pp. 337-360, (N. J., F. D. 17526-17575); pp. 361-374, (N. J., F. D. 17576-17600); pp. 375-416, (N. J., F. D. 17601-17650.) pp. 417-438. (N. J., F. D. 17651-17700.) Price, 5¢ each.

OTHER PUBLICATIONS

Cooperative Extension Work, 1929. Prepared by the Office of Cooperative Extension Work. C. B. Smith, Chief. 137 p., illus. Price, 15¢.

Laws and regulations relating to game, land fur-bearing animals, and birds in Alaska. Bureau of Biological Survey. 34 p., illus. (Alaska Game Commission Circular 8.) Price, 10¢.

New credit for farmers: How farm communities may obtain Federal funds for agricultural credit corporations and how these funds supplement permanent farm-credit facilities. Issued by The National Advisory Loan Committee, Agricultural Credits Division, U. S. Department of Agriculture. 15 p. Price, 5¢.

The family's food at low cost. Hazel K. Stiebling, Bureau of Home Economics, Miriam Birdseye, Extension Service, United States Department of Agriculture, and Clyde B. Schuman, American Red Cross. Rev. 4 p. Price, 5¢.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 15, No. 4, April 1, 1931. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.¹

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

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Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

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Experiment station record. Vol. 64, No. 5. April, 1931. Single numbers for sale only. Price, 10¢.¹

A technical review of the world's scientific literature pertaining to agriculture. Two volumes a year, of 10 numbers each; 75¢ a volume, domestic; \$1.25 a volume, foreign.

Extension service review. Vol. 2, No. 4, April, 1931. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.¹

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Forest worker. Vol. 7, No. 2, March, 1931. Price, 5¢ a copy; 25¢ a year, domestic; 35¢ a year, foreign.¹

News of State, forestry, forestry education, private forestry, and the work of the Forest Service.

Journal of agricultural research. Vol. 42, Nos. 4-8. February 15; March 15; April 1, 15. Price, 20¢ a copy; \$4 a year, domestic; \$5.25 a year, foreign.¹ Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work. Separates of articles are distributed free to those desiring them, as long as the limited supply lasts.

Monthly weather review. Vol. 59, No. 1, January, 1931. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.¹ Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary, and (3) climatological tables.

Public roads. Vol. 12, No. 1, March, 1931. Illus. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.¹

The official record. Vol. 10, Nos. 14-17, April 4, 11, 18, 25, 1931. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.¹

Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.

Weekly weather and crop bulletin. Nos. 13-16, March 31, April 7, 14, 21, 1931. Price, 50¢ a year, domestic; \$1 a year, foreign.¹

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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MONTHLY LIST OF PUBLICATIONS

MAY, 1931

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FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Conserving corn from weevils in the Gulf Coast States. E. A. Back, Bureau of Entomology. 30 p., illus. (Farmers' Bulletin 1029F., rev.) Price, 5¢.

Raising sheep on temporary pastures. F. R. Marshall and C. G. Potts, Bureau of Animal Industry. 16 p., illus. (Farmers' Bulletin 1181F., rev.) Price, 5¢.

Standard breeds and varieties of chickens. I. American, Asiatic, English, and Mediterranean classes. M. A. Jull, Bureau of Animal Industry. 38 p., illus. (Farmers' Bulletin 1506F., rev.) Price, 10¢.

Beef production on the farm. W. H. Black and E. W. McComas, Bureau of Animal Industry. 14 p., illus. (Farmers' Bulletin 1592F., rev.) Price, 5¢.

Farmers' Bulletins 1601-1625. Title page and table of contents. 9 p. Price, 5¢.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins, except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in formal, popular style, and are limited to eight pages.

Is the public market a good civic investment? Caroline B. Sherman, Bureau of Agricultural Economics. 8 p., illus. (Leaflet 73L.) Price, 5¢.

A discussion of the economic factors affecting the establishment of a public market as a civic investment. It shows the relation of the farmer to the community and describes the buying habits of a community.

Warts on cattle. G. T. Creech, Bureau of Animal Industry. 4 p., illus. (Leaflet 75L.) Price, 5¢.

Of interest to cattlemen. Discusses the cause of warts on cattle and the resulting injury to hides and leather. Preventive measures and methods of treatment are given in detail.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

Technical Bulletins 176-200. Title page and table of contents. 12 p. Price, 5¢.

The chemical eradication of Ribes. H. R. Offord, Bureau of Plant Industry. 24 p., illus. (Technical Bulletin 240T.) Price, 10¢.

Intended to show the economic value of chemical eradication of Ribes, as a means of limiting the spread of white pine rust in commercial timber areas.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Fig insects in California. Perez Simmons, W. D. Reed, and E. A. McGregor, Bureau of Entomology. 72 p., illus. (Circular 157C.) Price, 20¢.

A discussion of the damage caused by the fig insects affecting the dried-fig industry in California. Recommendations for their control, the varieties of figs affected, and the present existing quarantine regulations are given in detail.

Manufacture of dimension stock from northern hardwoods. A. O. Benson, Forest Service. 62 p., illus. (Circular 163C.) Price, 15¢.

Intended for hardwood operators engaged in or contemplating the production of dimension stock. It contains extensive tabular data, and a discussion of seasoning and handling methods.

The Dutch elm disease. Curtis May and G. F. Gravatt, Bureau of Plant Industry. 10 p., illus. (Circular 170C.) Price, 5¢.

A discussion of the serious effect of the Dutch elm disease on our shade and forest trees. The purpose of the circular is to interest tree lovers in sending in specimens from unhealthy elms in order to ascertain at once proper control policies.

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils which controls their distribution.

Iowa, Lyon County. (1927, No. 11.) Price, 20¢. Kans., Crawford County. (1928, No. 3.) Price, 10¢. New York, St. Lawrence County. (1925, No. 34.) Price, 50¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Regulations for warehousemen storing seeds under the United States warehouse act. Bureau of Agricultural Economics. 21 p. (S. R. A., B. A. E. 122.) Price, 5¢.

Information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry for April, 1931. pp. 35-44 (S. R. A., B. A. I. 288.) Price, 5¢.

Amendment of July 8, 1930, to Federal food and drugs act and requirements thereunder. (Sec. 8 of food and drugs act, par. 5 in the case of food.) Food and Drug Administration. 8 p. (S. R. A., F. D. No. 4, Rev. 1.) Price, 5¢.

Notice of judgment under the regulations of the naval stores act. Food and Drug Administration. 1 p. (N. J., N. S. No. 3.) Price, 5¢.

Revised rules and regulations governing the movement of plants and plant products into and out of the District of Columbia. Plant Quarantine and Control Administration. 7 p. (PQCA—DC. Regs.) Price, 5¢.

OTHER PUBLICATIONS

Yearbook, 1931. 1113 p., illus. Price, \$1.50. For sale only.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 15, No. 5, May 1, 1931. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Climatological data. Vol. 17, No. 13, Annual, 1930. Vol. 18, No. 1, January, 1931.

In 42 sections, containing weather statistics for 42 separate sections, each corresponding, as a rule, to a State. Monthly information for 1 section is 50¢ a year; for data regarding all 42 sections, 35¢ a month, or \$4 a year.¹ Not for general distribution.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3.00 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2.40 a year.¹

Experiment station record. Vol. 64, No. 6-8. April-June, 1931. Single numbers for sale only. Price, 10¢.¹

A technical review of the world's scientific literature pertaining to agriculture. Two volumes a year, of 10 numbers each; 75¢ a volume, domestic; \$1.25 a volume, foreign.

Extension service review. Vol. 2, No. 5, May, 1931. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.¹

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Journal of agricultural research. Price, 20¢ a copy; \$4 a year, domestic; \$5.25 a year, foreign.¹ Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work. Separates of articles are distributed free to those desiring them as long as the limited supply lasts.

— Vol. 42, No. 9, illus. May 1, 1931.

CONTENTS:

- Metaxenia in cotton. Key No. G-769. George J. Harrison.
- Development of the citrus-scab organism, *Sphaceloma fawcettii*. Key. No. G-762. Anna E. Jenkins.
- The mechanism of sex in *Uromyces appendiculatus* and *U. vignae*. Key. No. G-770. C. Frederic Andrus.
- Two wild grasses as hosts of the Hessian fly, *Phytophaga destructor*. Key No. K-216. W. B. Noble.
- Nutrients used for maintenance by growing dairy cattle. Key No. Minn.-72. T. W. Gullickson and C. H. Eckles.
- Nutrient requirements for normal growth of dairy cattle. Key No. Minn.-73. C. H. Eckles and T. W. Gullickson.

— Vol. 42, No. 10, illus. May 15, 1931.

CONTENTS:

- Some effects of chilling temperatures on sweetpotatoes. Key No. G-758. J. I. Lauritzen.
- Effect of abnormally long and short alternations of light and darkness on growth and development of plants. Key No. G-771. W. W. Garner and H. A. Allard.
- Germicidal efficiency of orthophenylphenol against *Mycrobacterium tuberculosis*. Key No. A-145. F. W. Tilley, A. D. MacDonald, and J. M. Schaffer.
- The effect of salt on the microbial heating of alfalfa hay. Key No. E-46. L. S. Stuart and Lawrence H. James.
- A preliminary study of the determination of the apparent digestibility of protein by modified procedures. Key No. Okla.-18. Willis D. Gallup and A. H. Kuhlman.
- Changes in the sugar, oil, and gossypol content of the developing cotton boll. Key No. Okla.-19. Charles Caskey, jr., and Willis D. Gallup.
- The effect of pasteurizing and homogenizing temperatures on certain properties of ice-cream mixes. Key No. Pa.-33. C. D. Dahle and G. S. Barnhart.
- A study of the cotton plant with especial reference to its nitrogen content. Key No. S. C.-4. G. M. Armstrong and W. B. Albert.

Monthly weather review. Vol. 59, No. 2, February, 1931. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.¹ Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary, and (3) climatological tables.

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Public roads. Vol 12, No. 2, April, 1931. Illus. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.¹

The official record. Vol. 10, Nos. 18-22, May 2, 9, 16, 23, 30, 1931. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.¹

Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.

Weekly weather and crop bulletin. Nos. 17-21, April 28, May 5, 12, 19, 26, 1931. Price, 50¢ a year, domestic; \$1 a year, foreign.¹

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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
United States Department of Agriculture MONTHLY LIST OF PUBLICATIONS

JUNE, 1931

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Any five of the general publications listed herein, except those otherwise noted, may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts. As many as five additional publications may be sent free if the applicant gives sufficient proof that they are urgently needed. Free distribution of periodicals is restricted.

After the department's supply is exhausted, publications may still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices stated herein.

 Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

The red spider on cotton and how to control it. E. A. McGregor, Bureau of Entomology. 15 p., illus. (Farmers' Bulletin 831F., rev.) Price, 5¢.

How to detect outbreaks of insects and save the grain crops. W. R. Walton, Bureau of Entomology. 21 p., illus. (Farmers' Bulletin 835F., rev.) Price, 5¢.

Fleas and their control. F. C. Bishopp, Bureau of Entomology. 16 p., illus. (Farmers' Bulletin 897F., rev.) Price, 5¢.

Some common disinfectants. M. Dorset, Bureau of Animal Industry. 10 p. (Farmers' Bulletin 926F., rev.) Price, 5¢.

The stable fly: How to prevent its annoyance and its losses to livestock. F. C. Bishopp, Bureau of Entomology. 18, illus. (Farmers' Bulletin 1097F., rev.) Price, 5¢.

Tuberculosis of fowls. Bernard A. Gallagher, Bureau of Animal Industry. 6 p., illus. (Farmers' Bulletin 1200F., rev.) Price, 5¢.

Clothes moths and their control. E. A. Back, Bureau of Entomology. 30 p., illus. (Farmers' Bulletin 1353F., rev.) Price, 5¢.

Feeding chickens. M. A. Jull and A. R. Lee, Bureau of Animal Industry. 22 p., illus. (Farmers' Bulletin 1541F., rev.) Price, 5¢.

Insects attacking the peach in the South and how to control them. Oliver I. Snapp, Bureau of Entomology. 42 p., illus. (Farmers' Bulletin 1557F., rev.) Price, 10¢.

Chalcid control in alfalfa-seed production. V. L. Wildermuth, Bureau of Entomology. 14 p., illus. (Farmers' Bulletin 1642F.) Price, 5¢.

This bulletin contains a brief account of the life history and habits of the chalcid and of the nature and extent of its damage to the alfalfa-seed crop.

The silverfish as a pest of the household. E. A. Back, Bureau of Entomology. 6 p., illus. (Farmers' Bulletin 1665F.) Price, 5¢.

Describes the life history, habits, and remedies for control of this common household insect. Of particular interest to apartment house owners and hotel managers because of the economic losses resulting from the spread of this pest.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

Care of the dairy calf. J. B. Shepherd, Bureau of Dairy Industry. 8 p., illus. (Leaflet 20L., rev.) Price, 5¢.

Eggs at any meal. Lucy M. Alexander, Bureau of Home Economics and Bureau of Animal Industry, and Fanny Walker Yeatman, Bureau of Home Economics. 8 p., illus. (Leaflet 39L., rev.) Price, 5¢.

English sparrow control. E. R. Kalmbach, Bureau of Biological Survey. 8 p., illus. (Leaflet 61L., rev.) Price, 5¢.

Slip covers. Bess M. Viemont, Bureau of Home Economics. 8 p., illus. (Leaflet 76L.) Price, 5¢.

Describes how slip covers may be used in every room in the house throughout the year. They have become an accepted part of home furnishing and decoration. It advises concerning the selection of materials and gives directions for their construction.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

A method of determining the volume and tonnage of haystacks. W. H. Hosterman, Bureau of Agricultural Economics. 36 p., illus. (Technical Bulletin 239T.) Price, 10¢.

Comparisons are made between the rules for determining volume in use at present and a new set of formulas developed from the data collected. Gives data on the number of cubic feet of hay required per ton for various lengths of time from date of stacking to date of measuring.

Harvesting small grain, soybeans, and clover in the Corn Belt with combines and binders. L. A. Reynoldson, Bureau of Agricultural Economics; W. R. Humphries, Bureau of Public Roads; and J. H. Martin, Bureau of Plant Industry. 55 p., illus. (Technical Bulletin 244T.) Price, 15¢.

Presents the data necessary to farmers in deciding whether to buy a combine or to continue harvesting with their present equipment. Makes comparisons between different harvesting methods in order to assist farmers who are considering the purchase of a combine for harvesting their various crops.

The relation of season of wounding and shellacking to callus formation in tree wounds. Rush P. Marshall, Bureau of Plant Industry. 29 p., illus. (Technical Bulletin 246T.) Price, 10¢.

It describes the many practices relating to the improvement and treatment of shade trees, especially regarding the pruning needs of and cavity work on individual species.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Hedging in grain futures. J. M. Mehl, Grain Futures Administration. 104 p., illus. (Circular 151C.) Price, 25¢.

Deals with the subject of hedging, especially as applied to the handling of grain at country elevators. Its purpose is to acquaint readers with the various kinds of protective use to be made of the futures market and to explain some of the fundamentals to be observed in connection with such use.

A simple chemical test for predetermining the culinary quality of potatoes as affected by the accumulation of soluble sugars. Walter M. Peacock and Byron C. Brunstetter, Bureau of Plant Industry. 4 p., illus. (Circular 158C.) Price, 10¢.

Intended to aid potato chip manufacturers who must have potatoes with a low content of soluble sugars, and buyers for hotels and restaurants where high-grade cooked potatoes are desired. The circular describes a calorimetric method for predetermining the culinary quality of the potato and the resulting color indicates its suitability for chip production.

Field observations on strawberry dwarf. Neil E. Stevens, Bureau of Plant Industry. 8 p., illus. (Circular 174C.) Price, 5¢.

The history and distribution of this disease is presented, together with such information as may be of practical value to pathologists, nurserymen, strawberry growers, and others.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Glossary of botanical terms commonly used in range research. W. A. Dayton, Forest Service. 40 p., illus. (Miscellaneous Publication 110 MP.) Price 15¢.

The United States Weather Bureau. Compiled by E. B. Calvert, meteorologist. 34 p., illus. (Miscellaneous Publication 114MP.) Price, 5¢.

Discusses the practical application of the Weather Bureau through the medium of the electric telegraph, radio, and other forms of communication, in the performance of a systematic and continuous service to the public, and in the interest of agriculture, commerce, and navigation.

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

California, The Clear Lake area. (No. 13, 1927.) Price, 15¢.

Nebraska, Lincoln County. (No. 35, 1926.) Price, 15¢.

Ohio, Butler County. (No. 12, 1927.) Price, 20¢.

Wisconsin, Manitowoc County. (No. 34, 1926.) Price, 15¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Modification of Japanese beetle quarantine regulations. Plant Quarantine and Control Administration. 4 p. (PQCA-Q48, Rev. of Regs. 6 and 9. Effective June 15, 1931.) Price, 5¢.

Notices of judgment under the food and drugs act. Food and Drug Administration: Pp. 465-504. (N. J., F. D. 17751-17800); pp. 505-516. (N. J., F. D. 17801-17825); pp. 517-556. (N. J., F. D. 17826-17875); pp. 557-568. (N. J., F. D. 17876-17900); pp. 569-587. (N. J., F. D. 17901-17925); pp. 589-624. (N. J., F. D. 17926-17975); pp. 625-636. (N. J., F. D. 17976-18000). June, 1931. Price, 5¢ each.

Regulations governing the appraisalment of and compensation for tuberculous and paratuberculous cattle condemned and destroyed in the control and eradication of tuberculosis and paratuberculosis of animals. 4 p. (B. A. I. Order 329.) Price, 5¢.

OTHER PUBLICATIONS

Aunt Sammy's radio recipes revised. Ruth Van Deman and Fanny Walker Yeatman, Bureau of Home Economics. 142 p. Price, 10¢.

Emergency low-cost food supply which will help pellagra (Supplement to The family's food at low cost). Hazel K. Stiebeling, Bureau of Home Economics; Miriam Birdseye, Extension Service; United States Department of Agriculture; and Clyde B. Schuman, American Red Cross. 1 p. Price, 5¢.

Plant material introduced by the Division of Foreign Plant Introduction, Bureau of Plant Industry, October 1 to December 31, 1929 (Nos. 81620-82599). 48 p. (B. P. I. Inventory 101.) Price, 5¢.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 15, No. 6, June 1, 1931. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Climatological data. Vol. 18, No. 2, February, 1931.

In 42 sections, containing weather statistics for 42 separate sections, each corresponding, as a rule, to a State. Monthly information for 1 section is 50¢ a year; for data regarding all 42 sections, 35¢ a month, or \$4 a year.¹ Not for general distribution.

Crops and markets. Vol. 8, No. 5, May, 1931. Price, 5¢ a copy; 60¢ a year, domestic; 85¢ a year, foreign.¹

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3.00 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2.40 a year.¹

Experiment station record. Vol. 63, Index Number; Vol. 64, No. 9, June, 1931. Abstract Number; Vol. 65, No. 1, July, 1931. Single numbers for sale only. Price, 10¢.¹

A technical review of the world's scientific literature pertaining to agriculture. Two volumes a year, of 10 numbers each; 75¢ a volume, domestic; \$1.25 a volume, foreign.

Extension service review. Vol 2, No. 6, June, 1931. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.¹

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Forest worker. Vol. 7, No. 3, May, 1931. Price, 5¢ a copy; 25¢ a year, domestic; 35¢ a year, foreign.¹

News of State, forestry, forestry education, private forestry, and the work of the Forest Service.

Journal of agricultural research. Price, 20¢ a copy; \$4 a year, domestic; \$5.25 a year, foreign.¹ Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work. Separates of articles are distributed free to those desiring them as long as the limited supply lasts.

— Vol. 42, No. 11. June 1, 1931. illus.

CONTENTS:

Progressive changes in the waxlike coating on the surface of the apple during growth and storage. Key No. G-77. K. S. Markley and Charles E. Sando.

An analysis of the effects of Diplodia infection and treatment of seed corn. Key No. Nebr.-12. T. A. Kiesselbach and J. O. Culbertson.

The order, rate, and regularity of blooming in the cotton plant. Key No. Ark.-16. C. K. McClelland and J. Winston Neely.

A comparison of methods for determining the volume-weight of soils. Key No. N. Mex.-3. Albert S. Curry.

Percentage dry matter and field weight of ear corn from unlimed and limed plots. Key No. N. J.-20. A. W. Blair.

Correlated inheritance in a cross (Sevier × Dicklow) × Dicklow wheats. Key No. Utah-26. George Stewart and R. K. Bischoff.

Ammonification of nitrogenous substances by pure cultures of microorganisms. Key No. Utah-27. H. C. Pulley.

Monthly weather review. Vol. 58. Table of Contents and Index. 1930. Vol. 59, No. 3, March, 1931. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.¹ Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary, and (3) climatological tables.

Public roads. Vol. 10, Index. March, 1929–February, 1930; Vol. 12, No. 3, May, 1931. Illus. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.¹

The official record. Vol. 10, Nos. 23–26, June 6, 13, 20, 27, 1931. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.¹

Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.

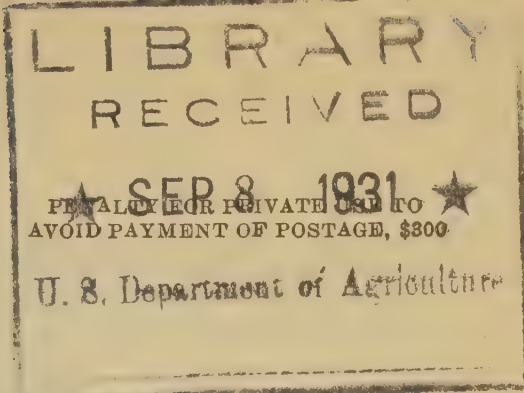
Weekly weather and crop bulletin. Nos. 22–25, June 2, 9, 16, 23, 1931. Price, 50¢ a year, domestic; \$1 a year, foreign.¹

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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MONTHLY LIST OF PUBLICATIONS

JULY, 1931

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GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Weeds: How to control them. H. R. Cox, Bureau of Plant Industry. 29 p., illus. (Farmers' Bulletin 660F, rev.) Price, 5¢.

Pineapple culture in Florida. E. D. Vosbury and J. R. Winston, Bureau of Plant Industry. 36 p., illus. (Farmers' Bulletin 1237F, rev.) Price, 10¢.

Slash pine. Wilbur R. Mattoon, Forest Service. 53 p., illus. (Farmers Bulletin 1256F, rev.) Price, 10¢.

The more important apple insects. A. L. Quaintance and E. H. Siegler, Bureau of Entomology. 106 p., illus. (Farmers' Bulletin 1270F, rev.) Price, 15¢.

Marketing poultry. Rob R. Slocum, Bureau of Agricultural Economics. 33 p., illus. (Farmers' Bulletin 1377F, rev.) Price, 5¢.

Canning fruits and vegetables at home. Louise Stanley, Bureau of Home Economics. 22 p., illus. (Farmers' Bulletin 1471F, rev.) Price, 5¢.

Control of insect pests in stored grain. E. A. Back and R. T. Cotton, Bureau of Entomology. 34 p., illus. (Farmers' Bulletin 1483F, rev.) Price, 10¢.

Farm poultry raising. M. A. Jull, Bureau of Animal Industry. 28 p., illus. (Farmers' Bulletin 1524F, rev.) Price, 5¢.

Feeding cattle for beef. W. H. Black, Bureau of Animal Industry. 17 p., illus. (Farmers' Bulletin 1549F, rev.) Price 5¢.

The European starling in the United States. E. R. Kalmbach, Bureau of Biological Survey. 27 p., illus. (Farmers' Bulletin 1571F, rev.) Price, 5¢.

Indicate below, by numbers, bulletins desired. Detach this frank and return in stamped envelope to U. S. Department of Agriculture, Office of Information, Washington, D. C. List no more than five publications.

Farmers' Bulletins	Leaflets	Technical Bulletins	Circulars	Miscellaneous Publications	Other Publications

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins, except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in formal, popular style, and are limited to eight pages.

Boning lamb cuts. K. F. Warner, Bureau of Animal Industry. 8 p., illus. (Leaflet 74L.) Price, 5¢.

Dresses for little girls. Clarice Louisba Scott, Bureau of Home Economics. 8 p., illus. (Leaflet 80L.) Price, 5¢.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

Technical Bulletins 201-225. Title page and table of contents. Prepared in the Division of Publications. 12 p. Price, 5¢.

Forest types in the Southwest as determined by climate and soil. G. A. Pearson, Forest Service. 144 p., illus. (Technical Bulletin 247T.) Price, 30¢.

Wood-liquid relations. L. F. Hawley, Forest Service. 35 p., illus. (Technical Bulletin 248T.) Price, 10¢.

Irrigation districts, their organization, operation, and financing. Wells A. Hutchins, Bureau of Public Roads. 94 p., illus. (Technical Bulletin 254T.) Price, 15¢.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Suggestions for the improvement of old bank dairy barns. M. C. Betts and M. A. R. Kelley, Bureau of Public Roads. 35 p., illus. (Circular 166C.) Price, 10¢.

Moss peat, its uses and distribution in the United States. A. P. Dachnowski-Stokes, Bureau of Chemistry and Soils. 12 p., illus. (Circular 167C.) Price, 5¢.

DEPARTMENT CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Department Bulletin series.

Government forest work. Prepared by the Forest Service. 58 p., illus. (Department Circular 211DC, rev.) Price, 10¢.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

- Rural standards of living: A selected bibliography. Compiled by Louise O. Bercaw, junior librarian, Bureau of Agricultural Economics. 84 p. (Miscellaneous Publication 116MP.) Price, 15¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

- Revised regulations for cotton warehouses, approved April 27, 1931. Bureau of Agricultural Economics. 23 p. (B. A. E. S. R. A. 126.) Price, 5¢.
- Regulations for warehousemen storing grain. Bureau of Agricultural Economics. 26 p. (B. A. E. S. R. A. 127.) Price, 5¢.
- Regulations for warehousemen storing wool under the United States warehouse act. Bureau of Agricultural Economics. 20 p. (B. A. E. S. R. A. 128.) Price, 5¢.
- Regulations for warehousemen storing tobacco, approved May 19, 1931. Bureau of Agricultural Economics. 22 p. (B. A. E. S. R. A. 129.) Price, 5¢.
- Information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry for June, 1931. pp. 55-65. (B. A. I. S. R. A. 290.) Price, 5¢.
- Notices of judgment under the food and drugs act. Food and Drug Administration. 12 p. (N. J., F. D. 18001-18025); pp. 13-30. (N. J., F. D. 18026-18050.) Price, 5¢ each.
- Black stem rust quarantine. Plant Quarantine and Control Administration 4 p. (PQCA-Q38, rev., effective August 1, 1931.)
- Gipsy moth and brown-tail moth quarantine. Plant Quarantine and Control Administration. 8 p. (PQCA-Q45, rev., effective June 1, 1931.)

OTHER PUBLICATIONS

- Experiments with fertilizers on coconut palms and variation in palm productivity. T. B. McClelland, director. 23 p., illus. (Porto Rico Bulletin 34.) Price, 10¢.
- Physical properties of Hawaii soils, with special reference to the colloidal fraction. Charles Richter, assistant chemist. 45 p., illus. (Hawaii Bulletin 62.) Price, 15¢.
- Report of the Hawaii Agricultural Experiment Station, 1930. 38 p., illus. Price, 10¢.
- Report of the Virgin Islands Agricultural Experiment Station, 1930. 19 p., illus. Price, 5¢.
- Report on the agricultural experiment stations, 1930. W. H. Beal and H. M. Steece, Office of Experiment Stations. 100 p. Price, 15¢.
- The potato in Alaska. H. W. Alberts, Alaska Agricultural Experiment Stations. 19 p., illus. (Alaska Agricultural Experiment Stations Bul. 9.) Price, 10¢.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase of subscription from the Superintendent of Documents.

- Agricultural situation. Vol. 15, No. 7, July, 1931. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.¹

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Climatological data. Vol. 18, No. 3, March, 1931.

In 42 sections, containing weather statistics for 42 separate sections, each corresponding, as a rule, to a State. Monthly information for 1 section is 50¢ a year; for data regarding all 42 sections, 35¢ a month, or \$4 a year.¹ Not for general distribution.

Crops and markets. Vol. 8, No. 6, June; No. 7, July, 1931. Price, 5¢ a copy; 60¢ a year, domestic; 85¢ a year, foreign.¹

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3.00 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2.40 a year.¹

Extension service review. Vol. 2, No. 7, July, 1931. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.¹

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Journal of agricultural research. Price, 20¢ a copy; \$4 a year, domestic; \$5.25 a year foreign.¹ Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work. Separates of articles are distributed free to those desiring them, as long as the limited supply lasts.

——— Vol. 42, No. 12. June 15, 1931. Illus.

CONTENTS:

Effect of extractives on the strength of wood. Key No. F-50. R. F. Luxford.
Studies on sclerotia and mycelial strands of the cotton root-rot fungus. Key No. G-772. C. J. King, H. F. Loomis, and Claude Hope.
Dispersion of soils by a supersonic method. Key No. H-19. L. B. Olmstead.
Predicting gains in feeder cattle and pigs. Key No. Tex.-9. Jay L. Lush.
The calcium requirements of dairy heifers. Key No. Mass.-29. J. B. Lindsey, J. G. Archibald, and P. R. Nelson.

Monthly weather review. Vol. 59, No. 4, April, 1931. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.¹ Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary, and (3) climatological tables.

Public roads. Vol. 12, No. 4, June, 1931. Illus. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.¹

The official record. Vol. 10, Nos. 27-30, July, 4, 11, 18, 25, 1931. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.¹

Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.

Weekly weather and crop bulletin. Nos. 26-30, June 30, July 7, 14, 21, 28, 1931. Price, 50¢ a year, domestic; \$1 a year, foreign.¹

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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MONTHLY LIST OF PUBLICATIONS

AUGUST, 1931

Send no remittances to the United States Department of Agriculture

Any five of the general publications listed herein, except those otherwise noted, may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts. As many as five additional publications may be sent free if the applicant gives sufficient proof that they are urgently needed. Free distribution of periodicals is restricted.

After the department's supply is exhausted, publications may still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices stated herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Horse-breeding suggestions for farmers. H. H. Reese, Bureau of Animal Industry. 18 p., illus. (Farmers' Bulletin 803F., rev.) Price, 5¢.

Farm sheep raising for beginners. F. R. Marshall and R. B. Millin. 22 p., illus. (Farmers' Bulletin 840F., rev.) Price, 5¢.

How to attract birds in the East Central States. W. L. McAtee, Bureau of Biological Survey. 14 p., illus. (Farmers' Bulletin 912F., rev.) Price, 5¢.

Breeds of light horses. H. H. Reese, Bureau of Animal Industry. 14 p., illus. (Farmers' Bulletin 952F., rev.) Price, 5¢.

Waterproofing and mildewproofing of cotton duck. H. P. Holman and T. D. Jarrell, Bureau of Chemistry and Soils. 10 p., illus. (Farmers' Bulletin 1157F., rev.) Price, 5¢.

How to grow rice in the Sacramento Valley. Jenkin W. Jones, Bureau of Plant Industry. 34 p., illus. (Farmers' Bulletin 1240F., rev.) Price, 5¢.

Tomatoes as a truck crop. W. R. Beattie, Bureau of Plant Industry. 34 p., illus. (Farmers' Bulletin 1338F., rev.) Price, 10¢.

Selection of cotton fabrics. Ruth O'Brien, Bureau of Home Economics. 22 p., illus. (Farmers' Bulletin 1449F., rev.) Price, 5¢.

Rural community fire departments. Wayne C. Nason, Bureau of Agricultural Economics. 46 p., illus. (Farmers' Bulletin 1667F.) Price, 10¢.

Farm terracing. C. E. Ramsel, Bureau of Agricultural Engineering. 22 p., illus. (Farmers' Bulletin 1669F.) Price, 5¢.

Indicate below, by numbers, bulletins desired. Detach this frank and return in stamped envelope to United States Department of Agriculture, Office of Information, Washington, D. C. List no more than five publications.

Farmers' Bulletins	Leaflets	Technical Bulletins	Circulars	Miscellaneous Publications	Other Publications

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins, except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

Maintaining the health of livestock in transit. A. W. Miller, Bureau of Animal Industry. 8 p., illus. (Leaflet 38L., rev.) Price, 5¢.

Bracing farm buildings. George W. Trayer, Forest Service, and M. C. Betts, Bureau of Agricultural Engineering. 6 p., illus. (Leaflet 77L.) Price, 5¢.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

Transporting and handling milk in tanks. Ralph P. Hotis, Bureau of Dairy Industry. 24 p., illus. (Technical Bulletin 243T.) Price, 10¢.

Some factors affecting the viscosity of cream. C. J. Babcock, Bureau of Dairy Industry. 20 p., illus. (Technical Bulletin 249T.) Price, 25¢.

Two citrus leaf miners of the Far East. C. P. Clausen, Bureau of Entomology. 14 p., illus. (Technical Bulletin 252T.) Price, 5¢.

Petroleum oils and oil emulsions as insecticides, and their use against the San Jose scale on peach trees in the South. H. S. Swingle and Oliver I. Snapp, Bureau of Entomology. 48 p., illus. (Technical Bulletin 253T.) Price, 10¢.

Life history of the codling moth in the Rogue River Valley of Oregon. M. A. Yothers and E. R. Van Leeuwen, Bureau of Entomology. 35 p., illus. (Technical Bulletin 255T.) Price, 10¢.

Longevity and germination of seeds of Ribes, particularly *R. rotundifolium*, under laboratory and natural conditions. A. E. Fivaz, Bureau of Plant Industry. 40 p., illus. (Technical Bulletin 261T.) Price, 15¢.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Tomato late-blight rot, a serious transit and market disease. G. B. Ramsey and Alice Allen Bailey, Bureau of Plant Industry. 11 p., illus. (Circular 169C.) Price, 5¢.

The control of the lesser peach borer with paradichlorobenzene solutions. Oliver I. Snapp and J. R. Thomson, Bureau of Entomology. 12 p., illus. (Circular 172C.) Price, 5¢.

Observations on the satin moth and its natural enemies in central Europe. R. C. Brown, Bureau of Entomology. 20 p., illus. (Circular 176C.) Price, 5¢.

Effect of heat treatment upon the quality of dry skim milk and condensed skim milk for ice cream. O. E. Williams and S. A. Hall, Bureau of Dairy Industry. 11 p., illus. (Circular 179C.) Price, 5¢.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Protect white pine from blister rust. J. F. Martin, Bureau of Plant Industry. Illus. (Miscellaneous Publication 22MPF., rev.) Price, 10¢.

Important western browse plants. William A. Dayton, Forest Service. 214 p., illus. (Miscellaneous Publication 101MP.) Price, 45¢.

Forest rangers' catechism. Questions and answers on the national forests of the California region. R. W. Ayers and Wallace I. Hutchinson, Forest Service. 48 p., illus. (Miscellaneous Publication 109MP.) Price, 15¢.

The outlook for the dairy industry. Prepared by the Bureau of Agricultural Economics. 60 p., illus. (Miscellaneous Publication 124MP.) Price, 15¢.

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

Arizona, The Paradise-Verde area. (1928, No. 6.) Price, 20¢.

Nebraska, Custer County. (1926, No. 36.) Price, 45¢.

South Carolina, Williamsburg County. (1928, No. 7.) Price, 15¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Modification of European corn borer quarantine regulations. 3 p. (P. Q. C. A.-Q. 43, rev., Effective July 24, 1931.)

Modification of pink bollworm quarantine regulation. Plant Quarantine and Control Administration. 2 p. (PQCA-Q52, rev., effective August 1, 1931.)

Information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry for July, 1931. pp. 67-80. (S. R. A.-B. A. I. 291.) Price, 5¢.

Notices of judgment under the insecticide act. Food and Drug Administration. pp. 93-98. (N. J., F. D. 1201-1205.) Price, 5¢.

Service and regulatory announcements. Plant Quarantine and Control Administration. October-December, 1930. pp. 133-199. (S. R. A.-P. Q. C. A. 105.) Price, 5¢. January-March, 1931. 38 p. (S. R. A.-P. Q. C. A. 106.) Price, 5¢.

OTHER PUBLICATIONS

Directory of field activities of the Plant Quarantine and Control Administration, 1931. Revised July 1, 1931. 60 p. Price, 10¢.

List of current quarantine and other restrictive orders and miscellaneous regulations. Plant Quarantine and Control Administration. 7 p.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase of subscription from the Superintendent of Documents.

Agricultural situation. Vol. 15, No. 8, August, 1931. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.¹

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, upper Michigan, lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3.00 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2.40 a year.¹

Experiment station record. Vol. 65, No. 2, August, 1931. Vol. 65, No. 3, August, 1931, Abstract number. Single numbers for sale only. Price, 10¢.¹

A technical review of the world's scientific literature pertaining to agriculture. Two volumes a year, of 10 numbers each; 75¢ a volume, domestic; \$1.25 a volume, foreign.

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Extension service review. Vol. 2, No. 8, August, 1931. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.¹

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Forest worker. Vol. 7, No. 4, July, 1931. Price, 5¢ a copy; 25¢ a year, domestic; 35¢ a year, foreign.¹

News of State, forestry, forestry education, private forestry, and the work of the Forest Service.

Journal of agricultural research. Price, 20¢ a copy; \$4 a year, domestic; \$5.25 a year, foreign.¹ Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work. Separates of articles are distributed free to those desiring them, as long as the limited supply lasts.

— Vol. 43, No. 1. July 1, 1931. Illus.

CONTENTS:

The use of polymorphic curves in determining site quality in young red pine plantations. Key No. Conn. (New Haven)—1. Henry Bull.

A bacterial disease of barberry caused by *Phytophthora berberidis*, n. sp. Key No. Ill.—45. H. H. Thornberry and H. W. Anderson.

Eupteromalus nidulans, a parasite of the brown-tail and satin moths. Key No. K—217. A. B. Proper.

A seed caterpillar, *Grapholitha conversana* Wlsm., on a native clover in the North Pacific region. Key No. K—218. L. P. Lockwood and Sarah K. Zimmerman.

Influence of thallium salts upon the molting mechanism of fowls. Key No. Conn. (Storrs)—2. Walter Landauer.

An instrument for determining the breaking strength of straw, and a preliminary report on the relation between breaking strength and lodging. Key No. Kans.—62. S. C. Salmon.

Characteristics associated with abortion and intersexual flowers in the eggplant. Key No. Okla.—20. Ora Smith.

Monthly weather review. Vol. 59, No. 5, May, 1931. illus. Price 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.¹ Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary, and (3) climatological tables.

Public roads. Vol. 12, No. 5, July, 1931. Illus. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.¹

The official record. Vol. 10, Nos. 31–35, August 1, 8, 15, 22, 29, 1931. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.¹

Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.

Weekly weather and crop bulletin. Nos. 31–34, August 4, 11, 18, 25, 1931. Price, 50¢ a year, domestic; \$1 a year, foreign.¹

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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MONTHLY LIST OF PUBLICATIONS
SEPTEMBER, 1931

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GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

(Title page) with contents. Farmers' Bulletins, Nos. 1626-1650. Prepared in the Indexing Section. 9 p. Price, 5¢.

How to attract birds in northeastern United States. W. L. McAtee. 18 p., illus. (Farmers' Bulletin 621F., rev.) Price, 5¢.

Wheat growing in the Southeastern States. Clyde E. Leighty, Bureau of Plant Industry. 14 p., illus. (Farmers' Bulletin 885F., rev.) Price, 5¢.

Plum and prune growing in the Pacific States. C. F. Kinman, Bureau of Plant Industry. 58 p., illus. (Farmers' Bulletin 1372F., rev.) Price, 10¢.

Swine production. E. Z. Russell, Bureau of Animal Industry. 37 p., illus. (Farmers' Bulletin 1437F., rev.) Price, 10¢.

Feeding dairy cows. T. E. Woodward and A. B. Nystrom, Bureau of Dairy Industry. 18 p., illus. (Farmers' Bulletin 1626F., rev.) Price, 5¢.

The control of moths in upholstered furniture. E. A. Back and R. T. Cotton. 33 p., illus. (Farmers' Bulletin 1655F., rev.) Price, 10¢.

The red harvester ant and how to subdue it. V. L. Wildermuth, and E. G. Davis, Bureau of Entomology. 22 p., illus. (Farmers' Bulletin 1668F.) Price, 5¢.

Game laws for the season 1931-32. H. P. Sheldon and Frank G. Grimes, Bureau of Biological Survey. 52 p. (Farmers' Bulletin 1684F.) Price, 5¢.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins, except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in formal, popular style, and are limited to eight pages.

Improving dairy herds. J. B. Parker, Bureau of Dairy Industry. 4 p., illus. (Leaflet 19L., rev.) Price, 5¢.

Indicate below, by numbers, bulletins desired. Detach this frank and return in stamped envelope to U. S. Department of Agriculture, Office of Information, Washington, D. C. List no more than five publications.

Farmers' Bulletins	Leaflets	Technical Bulletins	Circulars	Miscellaneous Publications	Other Publications

Rompers. Clarice Louisba Scott, Bureau of Home Economics. 8 p., illus. (Leaflet 79L.) Price, 5¢.
 Cooking cured pork. Lucy M. Alexander, Bureau of Home Economics and Bureau of Animal Industry, and Fanny Walker Yeatman. 8 p. (Leaflet 81L.) Price, 5¢.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

Biology of the Indian-meal moth on dried fruits in California. J. C. Hamlin, W. D. Reed, and M. E. Phillips, Bureau of Entomology. 27 p., illus. (Technical Bulletin 242T.) Price, 5¢.
 Arsenical and other fruit injuries of apples resulting from washing operations. D. F. Fisher and E. L. Reeves, Bureau of Plant Industry. 12 p., illus. (Technical Bulletin 245T.) Price, 10¢.
 Timber growing and logging practice in the southern Appalachian region. E. H. Frothingham and R. Y. Stuart, Forest Service. 93 p., illus. (Technical Bulletin 250T.) Price, 30¢.
 Suitability of brush lands in the intermountain region for the growth of natural or planted western yellow pine forests. F. S. Baker and Clarence F. Korstian. 83 p., illus. (Technical Bulletin 256T.) Price, 25¢.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Plowing as a control measure for the European corn borer in western New York. H. N. Bartley and L. B. Scott, Bureau of Entomology. 28 p., illus. (Circular 165C.) Price, 10¢.
 Cycles of growth in cotton root rot at Greenville, Tex. Homer C. McNamara, Dalton R. Hooton, and Dow D. Porter, Bureau of Plant Industry. 18 p., illus. (Circular 173C.) Price, 5¢.
 Experiments for the control of the San Jose scale with lubricating-oil emulsions in the Pacific Northwest. E. J. Newcomer and M. A. Yothers, Bureau of Entomology. 12 p. (Circular 175C.) Price, 5¢.
 Control of Botrytis rot of pears with chemically treated wrappers. Jacquelin S. Cooley and J. H. Crenshaw, Bureau of Plant Industry. 10 p., illus. (Circular 177C.) Price, 5¢.
 The production of dairy cows as affected by frequency and regularity of milking and feeding. T. E. Woodward, Bureau of Dairy Industry. 16 p., illus. (Circular 180C.) Price, 5¢.
 Factors for converting percentages of nitrogen in foods and feeds into percentages of proteins. D. Breese Jones, Bureau of Chemistry and Soils. 22 p. (Circular 183C.) Price, 5¢.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Officials and organizations concerned with wild-life protection, 1931. Frank G. Grimes, Bureau of Biological Survey. 13 p. (Miscellaneous Publication 122MP.) Price, 5¢.

List of technical workers in the Department of Agriculture and outline of department functions. Office of Personnel and Business Administration. 165 p. (Miscellaneous Publication 123MP.) Price, 25¢.

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

Arizona, The Gila Bend area. (No. 4, 1928.) Price, 15¢.

California, The Santa Ynez area. (No. 15, 1927.) Price, 20¢.

Colorado, The Arkansas Valley area. (No. 24, 1926.) Price, 50¢.

Idaho, The Jerome area. (No. 16, 1927.) Price, 15¢.

Iowa, Buchanan County. (No. 33, 1926.) Price, 15¢.

Iowa, Butler County. (No. 5, 1928.) Price, 20¢.

Iowa, Union County. (No. 14, 1927.) Price, 15¢.

Kansas, Crawford County. (No. 3, 1928.) Price, 10¢.

New York, St. Lawrence County. (No. 34, 1925.) Price, 50¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Notices of judgment under the food and drugs act. Food and Drug Administration. pp. 31-66. (N. J., F. D. 18051-18100). August, 1931. Price, 5¢.

Notices of judgment under the insecticide act. Food and Drug Administration. pp. 99-104. (N. J., I. F. 1206-1210.) Price, 5¢.

Notice of judgment under the regulations of the Naval Stores Act. Food and Drug Administration. 1 p. (N. J., N. S. No. 4.) Price, 5¢.

Modification of European corn borer quarantine regulations. Plant Quarantine and Control Administration. 3 p. (PQCA—Q43.—Revision of Regulations 5 and 6, Effective August 15, 1931.) Price, 5¢.

Inspection and certification regulations to meet foreign sanitary requirements. Plant Quarantine and Control Administration. 3 p. (P. Q. C. A.—San. Exp. Regs.) Price, 5¢.

Official standards for apples. Bureau of Agricultural Economics. 8 p. (S. R. A., B. A. E. 93, Revised, Amend. 1). Price, 5¢.

Regulations for warehousemen storing dry beans. Approved June 2, 1931. Bureau of Agricultural Economics. 21 p. (S. R. A., B. A. E. 130.) Price, 5¢.

Rules and regulations of the Secretary of Agriculture governing the inspection and certification of dressed poultry and dressed domestic rabbits for external condition and of dressed poultry and dressed domestic rabbits and edible products thereof for condition and wholesomeness. Bureau of Agricultural Economics. 10 p. (S. R. A.—B. A. E. 131.) Price, 5¢.

Information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry, August, 1931. pp. 81-88. (S. R. A.—B. A. I. 292.) Price, 5¢.

Migratory-bird treaty act regulations and text of Federal laws relating to game and birds. Bureau of Biological Survey. 18 p. (S. R. A.—B. S. 76.) Price, 5¢.

Regulations for the enforcement of the Federal food and drugs act. Food and Drug Administration. 10 p. (S. R. A., F. D. No. 1. Rev. 10.) 5¢.

Definitions and standards for food products. Food and Drug Administration. 19 p. (S. R. A., F. D. No. 2, Rev. 2.) Price, 5¢.

Certification of coal-tar food products. Food and Drug Administration. 10 p. (S. R. A., F. D. No. 3, Rev. 1.) Price, 5¢.

OTHER PUBLICATIONS

General index to Experiment Station Record, Volumes 41 to 50, 1919-1924. Martha C. Gundlach, Office of Experiment Stations. 709 p. Price, \$1.25.
For sale only.

Plant material introduced by the Division of Foreign Plant Introduction, Bureau of Plant Industry, January 1 to March 31, 1930 (Nos. 82600-86755.) 111 p. (B. P. I. Inventory 102.) Price, 20¢.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 15, No. 9, September 1, 1931. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.¹

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Climatological data. Vol. 18, No. 4, April; No. 5, May, 1931.

In 42 sections, containing weather statistics for 42 separate sections, each corresponding, as a rule, to a State. Monthly information for 1 section is 50¢ a year; for data regarding all 42 sections, 35¢ a month, or \$4 a year.¹ Not for general distribution.

Crops and markets. Vol. 8, No. 8, August, 1931. Price, 5¢ a copy; 60¢ a year; domestic; 85¢ a year, foreign.¹

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3.00 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts are issued at numerous stations throughout the United States; 20¢ a month, \$2.40 a year.¹

Experiment station record. Vol. 65, No. 4, September; No. 5, October, 1931. Single numbers for sale only. Price, 10¢.¹

A technical review of the world's scientific literature pertaining to agriculture. Two volumes a year, of 10 numbers each; 75¢ a volume, domestic; \$1.25 a volume, foreign.

Extension service review. Vol. 2, No. 9, September, 1931. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.¹

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Journal of agricultural research. Vol. 43, No. 2, July 15; No. 3, August 1; No. 4, August 15, 1931. Illus. Price, 20¢ a copy; \$4 a year, domestic; \$5.25 a year, foreign.¹ Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work. Separators of articles are distributed free to those desiring them as long as the limited supply lasts.

Monthly weather review. Vol. 59, No. 6, June, 1931. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.¹ Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary, and (3) climatological tables.

Public roads. Vol. 12, No. 6, August; No. 7, September, 1931. Illus. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.¹

The official record. Vol. 10, Nos. 35-39, August 29, September 5, 12, 19, 26, 1931. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.¹

Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.

Weekly weather and crop bulletin. Nos. 35-38, September 1, 8, 15, 22, 1931. Price, 50¢ a year, domestic; \$1 a year, foreign.¹

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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United States Department of Agriculture

MONTHLY LIST OF PUBLICATIONS

OCTOBER, 1931

Send no remittances to the United States Department of Agriculture

Any five of the general publications listed herein, except those otherwise noted, may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts. As many as five additional publications may be sent free if the applicant gives sufficient proof that they are urgently needed. Free distribution of periodicals is restricted.

After the department's supply is exhausted, publications may still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices stated herein.

Except in the case of exchanges, publications are not sent free to residents of foreign countries.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Hog cholera. M. Dorset and U. G. Houck, Bureau of Animal Industry. 29 p., illus. (Farmers' Bulletin 834F., rev.) Price, 5¢.

Insecticides, equipment, and methods for controlling orchard insect pests. A. L. Quaintance and E. H. Siegler, Bureau of Entomology. 93 p., illus. (Farmers' Bulletin 1666F.) Price, 25¢.

Shortleaf pine. Wilbur R. Mattoon, Forest Service. 44 p., illus. (Farmers' Bulletin 1671F.) Price, 10¢.

Diseases of pecans in the Southern States. J. B. Demaree, Bureau of Plant Industry. 28 p., illus. (Farmers' Bulletin 1672F.) Price, 10¢.

The farm garden. J. H. Beattie and W. R. Beattie, Bureau of Plant Industry. 68 p., illus. (Farmers' Bulletin 1673F.) Price, 10¢.

Food for children. Rowena Schmidt Carpenter and Helen Nebeker Hann, Bureau of Home Economics, in cooperation with the Washington Child Research Center. 22 p., illus. (Farmers' Bulletin 1674F.) Price, 5¢.

Care of milk utensils on the farm. R. J. Posson and Ralph P. Hotis, Bureau of Dairy Industry. 10 p., illus. (Farmers' Bulletin 1675F.) Price, 5¢.

Pop corn. Arthur M. Brunson and Carl W. Bower, Bureau of Plant Industry. 18 p., illus. (Farmers' Bulletin 1679F.) Price, 5¢.

Planting and care of lawns. H. L. Westover and C. R. Enlow, Bureau of Plant Industry. 18 p., illus. (Farmers' Bulletin 1677F.) Price, 5¢.

Removing spray residue from apples and pears. H. C. Diehl, J. M. Lutz, and A. L. Ryall, Bureau of Plant Industry. 32 p., illus. (Farmers' Bulletin 1687F.) Price, 5¢.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

Southern white cedar. C. F. Korstian, Appalachian Forest Experiment Station, and W. D. Brush, Forest Service. 76 p., illus. (Technical Bulletin 251T.) Price, 25¢.

Deterioration of chestnut in the southern Appalachians. D. V. Baxter and L. S. Gill, Bureau of Plant Industry. 22 p., illus. (Technical Bulletin 257T.) Price, 10¢.

The leaf hoppers attacking apple in the Ozarks. A. J. Ackerman, Bureau of Entomology, and Dwight Isely, Arkansas Agricultural Experiment Station. 40 p., illus. (Technical Bulletin 263T.) Price, 10¢.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Artificial reseeding on western mountain range lands. C. L. Forsling, Intermountain Forest and Range Experiment Station, and William A. Dayton, Forest Service. 48 p., illus. (Circular 178C.) Price, 15¢.

Stinking smut (bunt) in wheat and how to prevent it. R. J. Haskell, Extension Service; Robert W. Leukel, Bureau of Plant Industry; and E. G. Boerner, Bureau of Agricultural Economics. 20 p., illus. (Circular 182C.) Price, 10¢.

Methods of crop production, at the Colby (Kans.) Branch Experiment Station, 1915 to 1929. Joseph B. Kuska, Bureau of Plant Industry. In cooperation with the Kansas Agricultural Experiment Station. 24 p., illus. (Circular 184C.) Price, 5¢.

New fertilizer materials. Albert R. Merz, Bureau of Chemistry and Soils. 15 p., illus. (Circular 185C.) Price, 5¢.

Sisal and henequen, plants yielding fiber for binder twine. Lyster H. Dewey, Bureau of Plant Industry. 12 p., illus. (Circular 186C.) Price, 5¢.

Time of planting as affecting yields of Rural New Yorker and Triumph potatoes in the Greeley, Colo., district. W. C. Edmundson, Bureau of Plant Industry. 7 p., illus. (Circular 191C.) Price, 5¢.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

A graphic summary of American agriculture based largely on the census. Compiled by O. E. Baker, Bureau of Agricultural Economics. 228 p., illus. (Miscellaneous Publication 105MP.) Price, 60¢. For sale only.

STATISTICAL BULLETINS

Tables giving statistics relating to one or more closely related agricultural commodities. Of interest to persons engaged in marketing or any business affected by agricultural production.

Corn futures: Volume of trading, open commitments, and prices from January 3, 1921, to December 31, 1929. Prepared by the Grain Futures Administration. 202 p., illus. (Statistical Bulletin 34S.) Price, 35¢.

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

Mississippi, Jackson County. 32 p. (No. 19, Series 1927.) Price 20¢.

Nebraska, Pierce County. 26 p. (No. 9, Series 1928.) Price, 20¢.

Ohio, Belmont County. 25 p. (No. 17, Series 1927.) Price, 20¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Amendment to regulations respecting game animals, land fur-bearing animals, game birds, nongame birds, and nests and eggs of birds in Alaska, approved March 7, 1931, effective July 1, 1931. Bureau of Biological Survey. 2 p. (Alaska Game Commission Circular 8, Supplement effective December 15, 1931.) Price, 5¢.

Definitions and standards for food products. Food and Drug Administration. 19 p. (S. R. A., F. D. No. 2, rev. 2.) Price, 5¢.

Index to Service and Regulatory Announcements, 1930. Plant Quarantine and Control Administration. 4 p. (S. R. A., P. Q. C. A Index, 1930.) Price, 5¢.

Modification of Mexican fruit worm quarantine regulations. Plant Quarantine and Control Administration. Effective October 2, 1931. 1 p. (PQCA-Q-64, Reg. 7, Par. (d), rev.)

Notices of Judgment under the food and drugs act. Food and Drug Administration. pp. 67-99. (N. J., F. D. 18101-18175.) Price, 5¢.

Physicochemical properties of edible-canna and potato starches. J. C. Ripperton. 48 p., illus. (Hawaii Bulletin No. 63.) Price, 10¢.

Service and Regulatory Announcements, April-June, 1931. Plant Quarantine and Control Administration. pp. 39-89. (S. R. A.—P. Q. C. A. No. 107.) Price, 5¢.

OTHER PUBLICATIONS

El cultivo de las frutas citrosas en Puerto Rico. Henry C. Henricksen, Porto Rico Agricultural Experiment Station. 35 p., illus. (Porto Rico Bulletin No. 33.) Price, 10¢.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase of subscription from the Superintendent of Documents.

Agricultural situation. Vol. 15, No. 10, October 1, 1931. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.¹

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, upper Michigan, lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3.00 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2.40 a year.¹

Experiment station record. Vol. 65, No. 6, October, 1931, Abstract number; Vol. 65, No. 7, November, 1931. Single numbers for sale only. Price, 10¢.¹

A technical review of the world's scientific literature pertaining to agriculture. Two volumes a year, of 10 numbers each; 75¢ a volume, domestic; \$1.25 a volume, foreign.

Extension service review. Vol. 2, No. 10, October, 1931. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.¹

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Forest worker. Vol. 7, No. 5, September, 1931. Price, 5¢ a copy; 25¢ a year, domestic; 35¢ a year, foreign.¹

News of State forestry, forestry education, private forestry, and the work of the Forest Service.

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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Journal of agricultural research. Price, 20¢ a copy; \$4 a year, domestic; \$5.25 a year foreign.¹ Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work. Separates of articles are distributed free to those desiring them, as long as the limited supply lasts.

— Vol. 43, No. 5. Illus. September 1, 1931.

CONTENTS

Vegetative changes and grazing use on Douglas fir cut-over land. Key No. F-5. Douglas C. Ingram.

Inheritance of resistance to rust, *Puccinia sorghi*, in maize. Key No. G-778. E. B. Mains.

A cytospora canker of apple trees. Key No. G-780. D. F. Fisher and E. L. Reeves.

Duration of the flowerless condition of some plants in response to unfavorable lengths of day. Key No. G-781. W. W. Garner and H. A. Allard.

Monodontomerus aereus Walker, both a primary and a secondary parasite of the brown-tail moth and the gipsy moth. Key No. K-222. C. F. W. Muesebeck.

The correlation between stand and yield of alfalfa and sweetclover. Key No. Ohio-10. C. J. Willard.

Stunting of wheat caused by *Tilletia levis* and *T. tritici*. Key No. Minn.-75. H. A. Rodenhiser.

Penetration of petroleum oils into plant tissue. Key No. N. J.-22. Joseph M. Ginsburg.

— Vol. 43, No. 6. Illus. September 15, 1931.

CONTENTS :

A study of certain characters in wheat back crosses. Key No. G-779. Victor H. Florell.

Viability of strand hyphae of the cotton root-rot fungus. Key No. G-782. David C. Neal and Lawrence G. McLean.

Influence of humidity on floral infection of wheat and barley by loose smut. Key No. G-784. V. F. Tapke.

Effects of cod-liver oil and ultra-violet irradiation, as influenced by oyster shell, in the diet of confined laying hens. Key No. A-147. Walter A. Hendricks, Alfred R. Lee, and Albert B. Godfrey.

Thinning experiments in young Douglas fir. Key No. F-55. W. H. Meyer.

A study of temperature and humidity conditions in common types of insect rearing cages. Key No. Kans.-63. Roger C. Smith.

The assimilation of nitrogen by tobacco. Key No. Mass.-30. A. B. Beaumont, G. J. Larsinos, P. Piekenbrock, and P. R. Nelson.

Monthly weather review. Vol. 59, No. 7, July, 1931. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.¹ Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary, and (3) climatological tables.

Public roads. Vol. 12, No. 8, October, 1931. Illus. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.¹

The official record. Vol. 10, Nos. 40-43, October 3, 10, 17, 24, 1931. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.¹

Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.

Weekly weather and crop bulletin. Nos. 40-43, October 6, 13, 20, 27, 1931. Price, 50¢ a year, domestic; \$1 a year, foreign.¹

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Indicate below, by numbers, bulletins desired. In order to assure prompt delivery, detach this frank and return in stamped envelope to U. S. Department of Agriculture, Office of Information, Washington, D. C. List no more than five publications.

Farmers' Bulletins	Leaflets	Technical Bulletins	Circulars	Miscellaneous Publications	Other publications

United States Department of Agriculture

MONTHLY LIST OF PUBLICATIONS

NOVEMBER, 1931

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U. S. DEPARTMENT OF AGRICULTURE

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GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Goose raising. Alfred R. Lee, Bureau of Animal Industry. 14 p., illus. (Farmers' Bulletin 767F., rev.) Price, 5¢.

Mites and lice on poultry. F. C. Bishopp and H. P. Wood, Bureau of Entomology. 20 p., illus. (Farmers' Bulletin 801F., rev.) Price, 5¢.

Planning the farmstead. M. C. Betts and W. R. Humphries, Bureau of Agricultural Engineering. 24 p. illus. (Farmers' Bulletin 1132F., rev.) Price, 5¢.

Important cultivated grasses. C. V. Piper, Bureau of Plant Industry. 34 p., illus. (Farmers' Bulletin 1254F., rev.) Price, 10¢.

The corrugation method of irrigation. James C. Marr, Bureau of Agricultural Engineering. 24 p., illus. (Farmers' Bulletin 1348F., rev.) Price, 5¢.

Turkey raising. Morley A. Jull and Alfred R. Lee, Bureau of Animal Industry. 22 p., illus. (Farmers' Bulletin 1409F., rev.) Price, 5¢.

Game laws for the season 1931-32. A summary of Federal, State, and Provincial statutes. H. P. Sheldon and Frank G. Grimes, Bureau of Biological Survey. 52 p. (Farmers' Bulletin 1684F., rev.) Price, 5¢.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins, except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in formal, popular style, and are limited to eight pages.

Hints on bobcat trapping. Stanley P. Young, Bureau of Biological Survey. 6 p., illus. (Leaflet 78L.) Price, 5¢.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

Fungous diseases of the cultivated cranberry. C. L. Shear, Neil E. Stevens, and Henry F. Bain, Bureau of Plant Industry. 58 p., illus. (Technical Bulletin 258T.) Price, 25¢.

Improvement in the production of oleoresin through lower chipping. Eloise Gerry, Forest Service. 24 p., illus. (Technical Bulletin 262T.) Price, 15¢.

Electrical equipment on movable bridges. Condé B. McCullough, Oregon State Highway Department; Albin L. Gemeny, Bureau of Public Roads; and W. R. Wickerham, electrical engineer. 114 p., illus. (Technical Bulletin 265T.) Price, 35¢.

Experiments on hybrid vigor and convergent improvement in corn. Frederick D. Richey and George F. Sprague, Bureau of Plant Industry. 22 p., illus. (Technical Bulletin 267T.) Price, 10¢.

The chemotropic responses of the house fly, the green-bottle flies, and the black blowfly. E. W. Laake, D. C. Parman, and F. C. Bishopp, Bureau of Entomology, and R. C. Roark, Bureau of Chemistry and Soils. 11 p. (Technical Bulletin 270T.) Price, 5¢.

The marketing and distribution of fruits and vegetables by motor truck. Brice Edwards and J. W. Park, Bureau of Agricultural Economics. 88 p., illus. (Technical Bulletin 272T.) Price, 20¢.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Variety tests of sugarcanes in Louisiana during the crop year 1929-30. George Arceneaux, I. E. Stokes, and R. B. Bisland, Bureau of Plant Industry. 24 p. (Circular 187C.) Price, 5¢.

Control of the satin moth by spraying in alternate years. C. W. Collins and Clifford E. Hood, Bureau of Entomology. 12 p., illus. (Circular 189C.) Price, 5¢.

Progress report on mechanical application of fertilizers to cotton in South Carolina, 1930. G. A. Cummings, Bureau of Agricultural Engineering; A. L. Mehring and G. H. Serviss, Bureau of Chemistry and Soils; and Ward H. Sachs, The National Fertilizer Association. 32 p., illus. (Circular 192C.) Price, 10¢.

Manure piles and feed lots as sources of European corn borer reinfestation. L. B. Scott, Bureau of Entomology. 15 p., illus. (Circular 194C.) Price, 5¢.

Tests of spray irrigation equipment. F. E. Staebner, Bureau of Agricultural Engineering. 30 p., illus. (Circular 195C.) Price, 10¢.

MISCELLANEOUS CIRCULARS

These circulars include those publications of a miscellaneous nature which do not fall within any of the other series issued by the department. The series closed with No. 110 and is replaced by the Miscellaneous Publications series.

The relations between crop yields and precipitation in the Great Plains areas. Crop rotations and tillage methods. E. C. Chilcott, Bureau of Plant Industry. 164 p., illus. (Miscellaneous Circular 81M.C., Supplement 1.) Price, 50¢.

Judging dairy cattle. A. B. Nystrom, Bureau of Dairy Industry, and C. H. Schopmeyer. Extension Service. 30 p., illus. (Miscellaneous Circular 99MC., rev.) Price, 10¢.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

The influence of weather on crops: 1900-1930. A selected and annotated bibliography. Compiled by A. M. Hannay, Bureau of Agricultural Economics. 246 p. (Miscellaneous Publication 118MP.) Price, 40¢.

The manufacture of low-acid rennet-type cottage cheese. H. L. Wilson and C. S. Trimble, Bureau of Dairy Industry. 11 p., illus. (Miscellaneous Publication 119MP.) Price, 5¢.

Bibliography relating to farm structures. Guy Ervin, Bureau of Agricultural Engineering. 43 p. (Miscellaneous Publication 125MP.) Price, 10¢.

STATISTICAL BULLETINS

Tables giving statistics relating to one or more closely related agricultural commodities. Of interest to persons engaged in marketing or any business affected by agricultural production.

Car-lot shipments of fruits and vegetables from stations in the United States for the calendar years 1928 and 1929. Prepared by the Bureau of Agricultural Economics. 152 p. (Statistical Bulletin 35S.) Price, 25¢.

Stumpage and log prices for the calendar year 1929. Henry B. Steer, Forest Service. 61 p., illus. (Statistical Bulletin 36S.) Price, 15¢.

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

Maryland, Calvert County. (1928, No. 13.) Price, 20¢.

Michigan, Mecosta County. (1927, No. 18.) Price, 10¢.

Nebraska, Thayer County. (1927, No. 20.) Price, 15¢.

Nebraska, York County. (1928, No. 10.) Price, 20¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry for September, 1931. pp. 89-97. (S. R. A.-B. A. I. 293.) Price, 5¢.

— October, 1931. pp. 99-106. (S. R. A.-B. A. I. 294.) Price, 5¢.

Notices of judgment under the food and drugs act. Food and Drug Administration. pp. 101-129. (N. J., F. D. 18176-18200.) Price, 5¢.

pp. 131-150. (N. J., F. D. 18201-18225.) Price 5¢.

pp. 151-188. (N. J., F. D. 18226-18300.) Price, 5¢.

To prevent the spread of splenetic or tick fever in cattle. Rule 1, Revision 30. 2 p. (B. A. I. Order 332, effective December 1, 1931.) Price, 5¢.

OTHER PUBLICATIONS

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Report of the Chief of the Bureau of Dairy Industry. O. E. Reed. 35 p. Price, 5¢.

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Report of the Guam Agricultural Experiment Station, 1930. 29 p., illus. Price, 15¢.

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Report of the Librarian. Claribel R. Barnett. 15 p. Price, 5¢.

Report of the Director of Personnel and Business Administration. W. W. Stockberger. 19 p. Price, 5¢.

Report of the Chief of the Bureau of Plant Industry. Wm. A. Taylor. 38 p. Price, 5¢.

Report of the Solicitor. Elton L. Marshall. 41 p. Price, 5¢.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 15, No. 11, November 1, 1931. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.¹

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

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In 42 sections, containing weather statistics for 42 separate sections, each corresponding, as a rule, to a State. Monthly information for 1 section is 50¢ a year; for data regarding all 42 sections, 35¢ a month, or \$4 a year.¹ Not for general distribution.

Crops and markets. Vol. 8, No. 10, October, 1931. Price, 5¢ a copy; 60¢ a year; domestic; 85¢ a year, foreign.¹

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

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Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, \$3.00 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts are issued at numerous stations throughout the United States; 20¢ a month, \$2.40 a year.¹

Experiment station record. Vol. 64. Index Number. Vol. 65, No. 8, December, 1931. Single numbers for sale only. Price, 10¢.¹

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Extension service review. Vol. 2, No. 11, November, 1931. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.¹

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Journal of agricultural research. Vol. 43, Nos. 7-8. October 1; October 15. Price, 20¢ a copy; \$4 a year, domestic; \$5.25 a year, foreign.¹ Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work. Separates of articles are distributed free to those desiring them, as long as the limited supply lasts.

Monthly weather review. Vol. 59, No. 8, August, 1931. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.¹ Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary, and (3) climatological tables.

Public roads. Vol. 12, No. 9, November, 1931. Illus. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.¹

The official record. Vol. 10, Nos. 44-47, October 31; November 7, 14, 21, 1931. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.¹

Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.

Weekly weather and crop bulletin. Nos. 44-47, November 3, 10, 17, 24, 1931. Price, 50¢ a year, domestic; \$1 a year, foreign.¹

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

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P96M
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United States Department of Agriculture

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DECEMBER, 1931

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Raspberry culture. George M. Darrow and George F. Waldo, Bureau of Plant Industry. 41 p., illus. (Farmers' Bulletin 887F., rev.) Price, 10¢.

Sudan grass. H. N. Vinall, Bureau of Plant Industry. 22 p., illus. (Farmers' Bulletin 1126F., rev.) Price, 5¢.

The farm lease contract. L. C. Gray and Howard A. Turner, Bureau of Agricultural Economics. 36 p. (Farmers' Bulletin 1164F., rev.) Price, 5¢.

Quack grass. L. W. Kephart, Bureau of Plant Industry. 30 p., illus. (Farmers' Bulletin 1307F., rev.) Price, 5¢.

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Christmas trees as a cash crop for the farm. F. H. Eyre, Forest Service. 17 p., illus. (Farmers' Bulletin 1664F.) Price, 5¢.

Lubricating-oil sprays for use on dormant fruit trees. A. L. Quaintance, E. J. Newcomer, and B. A. Porter, Bureau of Entomology. 18 p., illus. (Farmers' Bulletin 1676F.) Price, 5¢.

Farmers in northern States grow timber as money crop. W. K. Williams, Office of Cooperative Extension Work. 22 p., illus. (Farmers' Bulletin 1680F.) Price, 5¢.

Usefulness of birds on the farm. W. L. McAtee, Bureau of Biological Survey. 14 p., illus. (Farmers' Bulletin 1682F.) Price, 5¢.

Fur laws for the season 1931-32. H. P. Sheldon and Frank G. Grimes, Bureau of Biological Survey. 30 p. (Farmers' Bulletin 1685F.) Price, 5¢.

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This series carries popular material of the same general character as that carried by the Farmers' Bulletins, except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in formal, popular style, and are limited to eight pages.

Strip cropping to prevent erosion. H. V. Geib, Bureau of Chemistry and Soils, cooperating with Texas Agricultural Experiment Station. 6 p., illus. (Leaflet 85L.) Price, 5¢.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

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Slash disposal in the western yellow pine forests of Oregon and Washington. Thornton T. Munger, Pacific Northwest Forest Experiment Station, and R. H. Westveld, Forest Service. 58 p., illus. (Technical Bulletin 259T.) Price, 20¢.

- Economical use of large tile for land drainage. Roger D. Marsden, Bureau of Agricultural Engineering. 24 p., illus. (Technical Bulletin 269T.) Price, 5¢.
- Relation of the method of watering dairy cows to their water consumption and milk production. T. E. Woodward and J. B. McNulty, Bureau of Dairy Industry. 14 p. (Technical Bulletin 278T.) Price, 5¢.

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This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

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- The Bellmar, Southland, and Redheart strawberries. George M. Darrow and George F. Waldo, Bureau of Plant Industry. 8 p., illus. (Circular 171C.) Price, 5¢.
- Buckwheat milling and its by-products. Mayne R. Coe, Bureau of Chemistry and Soils. 12 p., illus. (Circular 190C.) Price, 5¢.
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- An air-pressure extension brush for applying creosote to gipsy moth egg clusters. C. W. Collins and J. V. Schaffner, jr., Bureau of Entomology. 8 p., illus. (Circular 204C.) Price, 5¢.
- Deterioration of Christmas holly in transit and storage. R. C. Wright and T. M. Whiteman, Bureau of Plant Industry. 12 p., illus. (Circular 207C.) Price, 10¢.
- The farm real estate situation, 1930-31. B. R. Stauber, Bureau of Agricultural Economics. 68 p., illus. (Circular 209C.) Price, 15¢.

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- Fertilizers for cotton soils. J. J. Skinner, Bureau of Chemistry and Soils. 10 p., illus. (Miscellaneous Publication 126MP.) Price, 5¢.
- The agricultural outlook for the Southern States, 1931-32. Prepared by the Staff of the Bureau of Agricultural Economics. Assisted by Representatives of the Agricultural Colleges and Extension Services of the Southern States, the Federal Extension Service, and the Federal Farm Board. 56 p. (Miscellaneous Publication 137MP.) Price, 10¢.

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

- Georgia, Cook County. (No. 11, Series 1928.) Price, 10¢.
- Kansas, Wilson County. (No. 22, Series 1927.) Price, 15¢.
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- New and revised definitions and standards for food products. Food and Drug No. 2 (Second Revision). Supplement No. 1. Food and Drug Administration. 2 p. (S. R. A., F. D. No. 2, Rev. 2, Supp. 1.) Price, 5¢.

Notices of Judgment, 17001-18000, Index. Food and Drug Administration. pp. 637-656. Price, 5¢.

OTHER PUBLICATIONS

Directory, Forest Service, October, 1931. 35 p. Price, 5¢.

Emergency food relief and child health. Prepared by Martha M. Elliott and Agnes K. Hanna, Children's Bureau, United States Department of Labor, and Hazel K. Stiebeling, Bureau of Home Economics, United States Department of Agriculture. 10 p. Price, 5¢.

Getting the most for your food money. Prepared jointly by the Bureau of Home Economics and the Extension Service. 4 p., illus. Price, 5¢.

Report of the Secretary of Agriculture, 1931. Arthur M. Hyde. 102 p. Price, 15¢.

Report of the Chief of the Bureau of Home Economics. Louise Stanley. 19 p. Price, 5¢.

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Annual report of the Chief of the Bureau of Agricultural Economics. Nils A. Olsen. 69 p. Price, 10¢.

Report of the Porto Rico Agricultural Experiment Station, 1930. 50 p., illus. Price, 10¢.

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A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Climatological data. Vol. 18, No. 7, July, 1931.

In 42 sections, containing weather statistics for 42 separate sections, each corresponding, as a rule, to a State. Monthly information for 1 section is 50¢ a year; for data regarding all 42 sections, 35¢ a month, or \$4 a year.¹ Not for general distribution.

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Experiment station record. Vol. 64, index number; vol. 65, No. 9, December, 1931, abstract number. Single numbers for sale only. Price, 10¢.¹

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Forest worker. Vol. 7, No. 7, November, 1931. Price, 5¢ a copy; 25¢ a year, domestic; 35¢ a year, foreign.¹

News of State forestry, forestry education, private forestry, and the work of the Forest Service.

Journal of agricultural research. Price, 20¢ a copy; \$4 a year, domestic, \$5.25 a year foreign.¹ Not distributed free to individuals.

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— Vol. 43, No. 9. November 1, 1931.

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Further studies of *Penicillium* injury to corn. Key No. G-776. Helen Johann, James R. Holbert, and James G. Dickson.

Toxic action of aqueous sodium chlorate on *Nitella*. Key No. G-788. H. R. Offord and R. P. d'Urbal.

The nonprotein nitrogen of the Alaska pea, with special reference to the chemical nature of humin nitrogen. Key No. G-790. S. L. Jodidi.

Oleoresin production from longleaf pine defoliated by fire. Key No. F-56. Eloise Gerry.

Some effects of straw mulch on yield of potatoes. Key No. Ohio-11. John Bushnell and F. A. Welton.

Monthly weather review. Vol. 59, No. 9, September, 1931. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.¹ Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary, and (3) climatological tables.

Public roads. Vol. 11, Index; Vol. 12, No. 10, December, 1931. Illus. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.¹

Snow and ice bulletin. Nos. 1-3, December 16, 23, 30, 1931. 1 p., map. 50¢ a year. Free distribution limited to cooperators with the Weather Bureau.

Issued on Tuesdays during the winter. Based on data from regular Weather Bureau and selected cooperative stations. As far as practicable all reports of snow and ice are given.

The official record. Vol. 10, Nos. 48-52, November 28, December 5, 12, 19, 26, 1931. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.¹

Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.

Weather outlook. Limited edition. Not for general distribution.

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Weekly weather and crop bulletin. Not for general distribution.

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

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